

US EPA RECORDS CENTER REGION 5



493415

L0990305026 La Salle County
USEPA/ILLINOIS & MICHIGAN CANAL
Superfund/HRS



CERCLA

Screening Site Inspection Report



**Illinois Environmental
Protection Agency**
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TABLE OF CONTENTS

INTRODUCTION.....	1-1
2.0 SITE BACKGROUND.....	2-1
2.1 INTRODUCTION.....	2-1
2.2 SITE DESCRIPTION.....	2-1
2.3 SITE HISTORY.....	2-4
2.4 APPLICABILITY OF OTHER STATUTES.....	2-14
3.0 SITE INSPECTION ACTIVITIES & ANALYTICAL RESULTS..	3-1
3.1 INTRODUCTION.....	3-1
3.2 RECONNAISSANCE INSPECTION.....	3-1
3.3 SITE REPRESENTATIVE INTERVIEW.....	3-2
3.4 SOIL/SEDIMENT SAMPLING.....	3-2
3.5 GROUNDWATER SAMPLING.....	3-6
3.6 SURFACE WATER SAMPLING.....	3-7
3.7 ANALYTICAL RESULTS.....	3-7
3.8 KEY SAMPLES.....	3-9
4.0 IDENTIFICATION OF SOURCES.....	4-1
4.1 INTRODUCTION.....	4-1
4.2 TANKS.....	4-1
4.3 DRUMS.....	4-3
4.4 CONTAMINATED SOILS.....	4-4
5.0 MIGRATION PATHWAYS.....	5-1
5.1 INTRODUCTION.....	5-1
5.2 GROUNDWATER PATHWAY.....	5-1
5.3 SURFACE WATER PATHWAY.....	5-2
5.4 AIR PATHWAY.....	5-6
5.5 SOIL EXPOSURE PATHWAY.....	5-7
6.0 BIBLIOGRAPHY.....	6-1

APPENDIXES

SITE FOUR MILE RADIUS MAP & SURFACE WATER MAP.....	A-1
USEPA FORM 2070-13.....	B-1
TARGET COMPOUND LIST.....	C-1
IEPA PHOTOGRAPHS.....	D-1
WELL LOGS.....	E-1
ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES.....	F-1

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
2-1 STATE OF ILLINOIS LOCATION MAP.....	2-2
2-2 SITE LOCATION MAP.....	2-3
2-3 1958 AERIAL PHOTOGRAPH.....	2-6
2-4 1975 AERIAL PHOTOGRAPH.....	2-7
2-5 1988 AERIAL PHOTOGRAPH.....	2-8
2-6 1990 AERIAL PHOTOGRAPH.....	2-9
3-1 SAMPLING LOCATIONS.....	3-3
3-2 SAMPLING LOCATIONS.....	3-4
5-1 LA SALLE ANTICLINE CROSS-SECTION LOCATION MAP....	5-3
5-2 GENERALIZED CROSS SECTION AT LA SALLE ANTICLINE..	5-4

LIST OF TABLES

<u>Table</u>	<u>Page</u>
3-1 SOIL SAMPLE DESCRIPTIONS.....	3-5
3-2 WASTE SAMPLE DESCRIPTIONS.....	3-6
3-3 SAMPLTE SUMMARY.....	3-8
3-4 KEY SAMPLES.....	3-10

1. INTRODUCTION

On September 24, 1991 the Illinois Environmental Protection Agency's Pre-Remedial Program was tasked by the U.S. Environmental Protection Agency (USEPA) to conduct a screening site inspection of the USEPA/Illinois & Michigan Canal site in La Salle, Illinois.

The site was initially placed on CERCLIS (Comprehensive Environmental Response, Compensation & Liability Information System) in September of 1990 as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency. The facility received its initial CERCLA evaluation in June of 1991, when Ms. Sheila Murphy of the Illinois EPA completed a formal Preliminary Assessment report. In March 1992, the Illinois EPA's Pre-Remedial program prepared and submitted to the Region V offices of the U.S. Environmental Protection Agency a screening site inspection work plan for USEPA/Illinois & Michigan Canal. The sampling portion of the screening site inspection was conducted on May 13, 1992 when the inspection team collected a total of eight soil/sediment and five waste samples. The purpose of a Screening Site Inspection has been stated by USEPA in a directive outline of Pre-Remedial program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) identify the most critical data requirements for the Expanded SI step. A Screening SI will not have rigorous data quality objectives (DQOs). Based

on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned), or carried forward as an NPL listing candidate. An Expanded SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act).... Sites that are designated NFRAP or deferred to other statutes are not candidates for an Expanded SI. The Expanded SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive an Expanded Site Inspection. (USEPA 1988).

The Region V offices of the USEPA have also requested that the Illinois Environmental Protection Agency identify sites during the Screening Site Inspection that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA Screening Site Inspection investigation, and previous Illinois Environmental Protection activities involving this site.

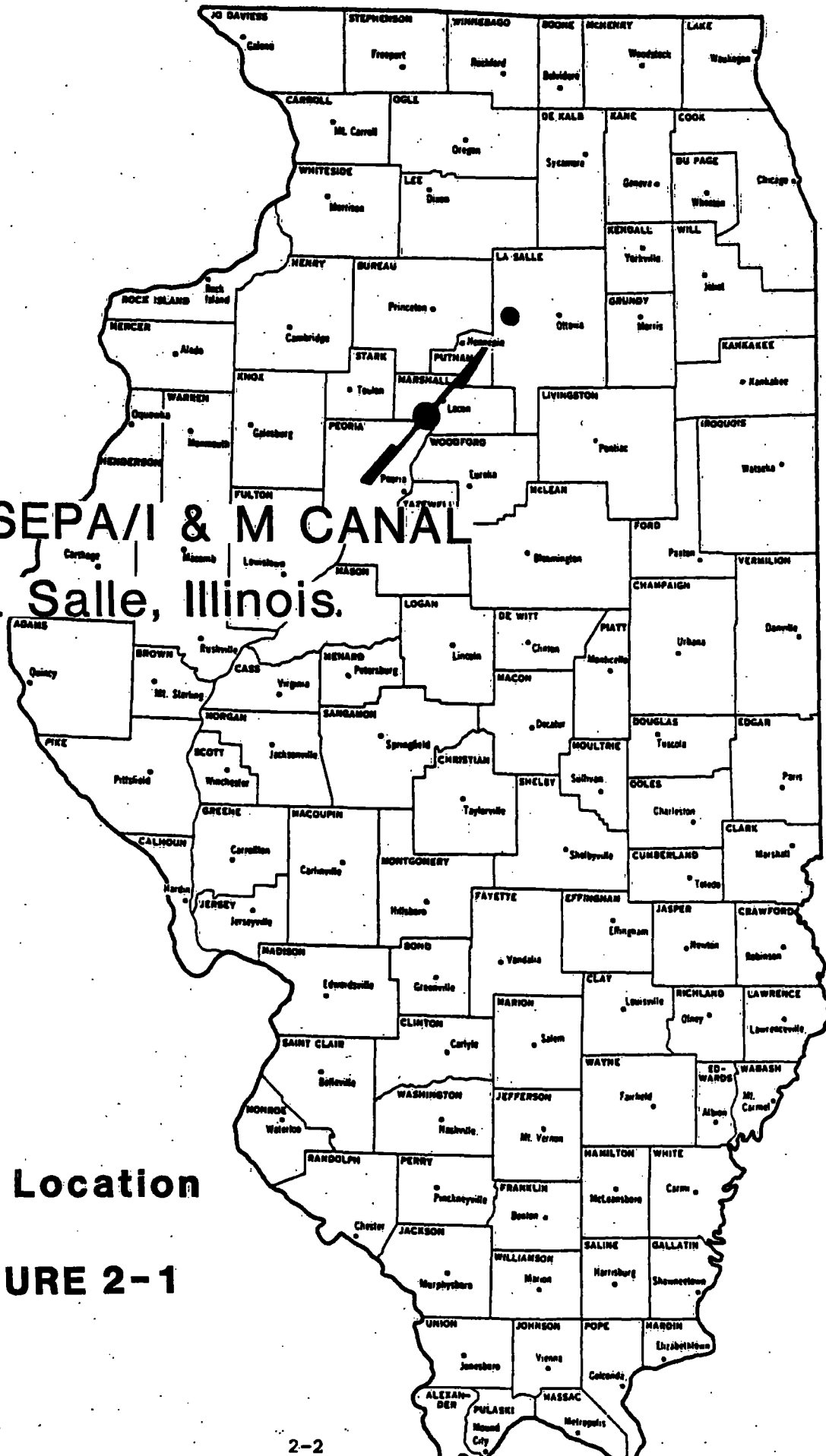
2.2 SITE DESCRIPTIONS

The USEPA/Illinois & Michigan Canal site consists of ten above ground storage tanks, ranging from about 2,000 to 10,000 gallons in size, and nine 55-gallon drums, all of which have been abandoned. The tanks sit on an area that is approximately 175 feet measuring from east to west and 50 feet measuring from north to south. The tanks and drums occupy the northern bluff, approximately seventy feet (varying on the water level), above the Illinois & Michigan Canal (I & M Canal). The less than one acre site is located south southwest of the intersection of extended Chartres and Brunner Streets along the southwest perimeter of La Salle's city limits.

The tanks are located in the extreme southwest corner of Section 15, Township 33 North, Range 1 East of La Salle County. (See Figure 2-1 and 2-2). A four mile radius map of lands surrounding the USEPA/I & M Canal site is provided in Appendix A of this report.

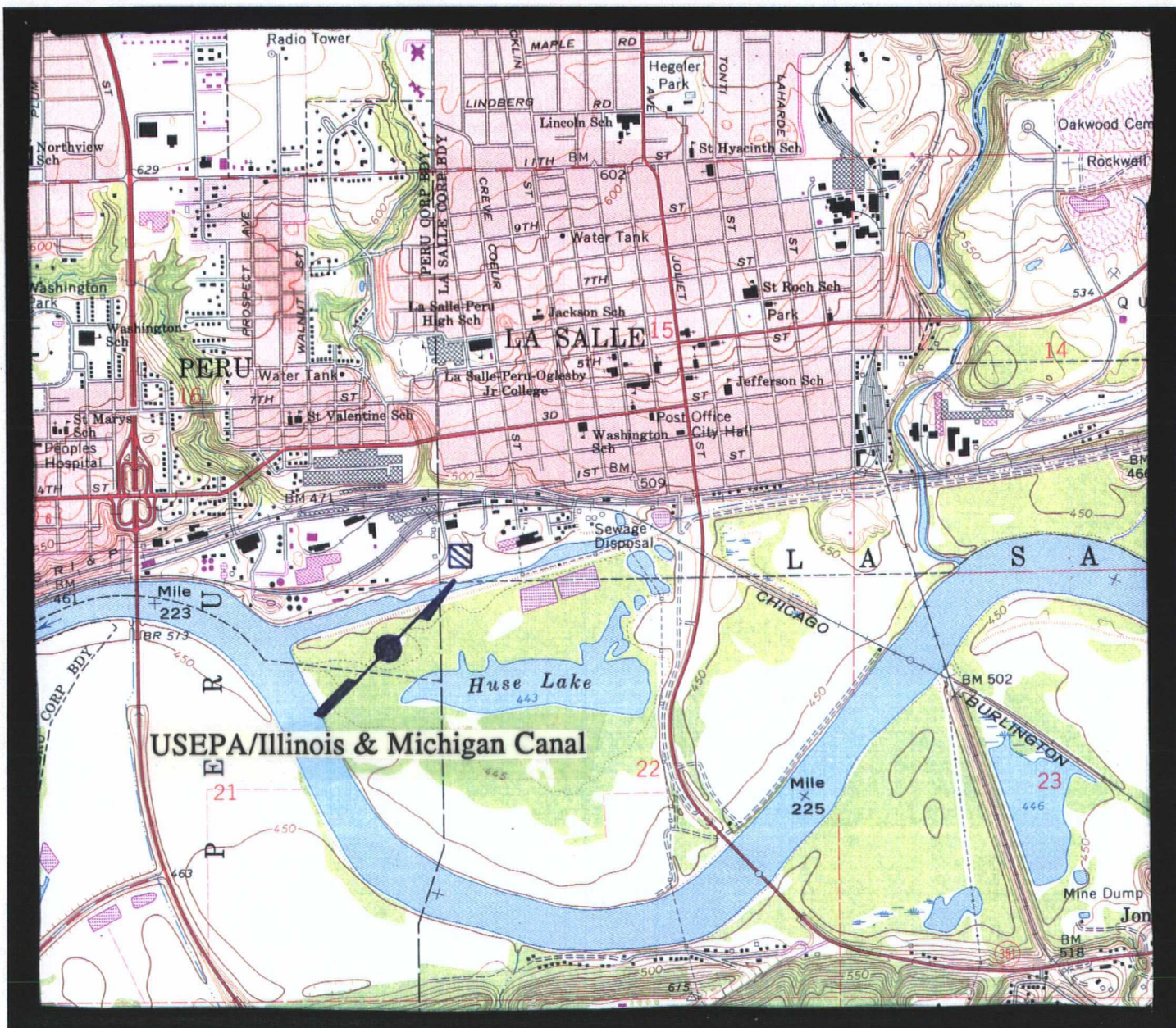
The tanks are situated on vacant property owned by the

USEPA/I & M CANAL La Salle, Illinois.



Site Location

FIGURE 2-1



SOURCE: IEPA, 1992. BASE MAP: USGS, 1966 LA SALLE, ILLINOIS 7.5 MINUTE QUADRANGLE

APPROXIMATE SCALE: 2 1/2" = 1 MILE

SITE TOPOGRAPHY

FIGURE 2-2

state of Illinois. The I & M Canal borders the southern edge of the site's locality. To the east of the site is more vacant land owned by the state of Illinois. This land is bordered by an inlet of the I & M Canal. The Tabor Grain facility sits on contiguous lands to the north and west of the site. The Tabor Grain Company is a subsidiary of Archer Daniel Midland Corporation (ADM)/ Growmark. This parcel of land is leased by Tabor Grain from IDOC.

2.3 SITE HISTORY

In May of 1990, PRC Environmental Management, Incorporated was contracted by the USEPA to conduct a title search for the land on which the USEPA/I & M Canal site is located. This title search determined that on March 5, 1830, a multi-parcel grant was issued to the State of Illinois by the United States. This grant was issued with the intentions of building the Illinois & Michigan Canal. The grant not only included the I & M Canal, but also an adjacent buffer strip. The buffer strip varies somewhat, but averages at about 90 feet. It is measured from the top portion of each bank where the slope begins and then approximately 90 feet beyond that point.

On April 19, 1910, Matthiessen & Hegler Zinc Company obtained a lease from the Canal Commissioner to mine beneath the surface of what is believed to be the same land on which USEPA/I & M Canal sits. The contract was for a period of twenty years and appears to never have been renewed.

According to Tim Werner, Illinois Department of Conservation (IDOC), the Illinois & Michigan Canal and the 90 foot buffer strip was originally overseen by the I & M Commission. Around 1920, the commission was dissolved and the I & M Canal property was turned over to the state of Illinois's Public Works and Buildings which is now the Illinois Department of Transportation's Division of Water Resources. During this time IDOT leased certain pieces of this land for industrial uses. Tabor Grain was one of the leasing companies.

In 1973, state custodianship of the I & M Canal was transferred from IDOT to the Illinois Department of Conservation (IDOC). It is believed that at this time, Tabor Grain realized the land they lease might possibly include the property on which the tanks are located. There are many property lines in the proximal area of the tanks which make it difficult to distinguish between public and private ownership.

Records suggest that in 1975 Mr. Leonard Trovero utilized lands adjacent to the tank farm for the operations of an asphalt plant, however, the exact location is unclear.

Aerial photographs indicate that the tanks have been at the I & M Canal site as early as November of 1958. (Refer to Figures 2-3 through 2-6 for site aerial photos.) According to IDOC and USEPA files, the tanks originally belonged to J.P. Hollerich of J.P. Hollerich Construction Company. Following Mr. Hollerich's death in 1963, his construction

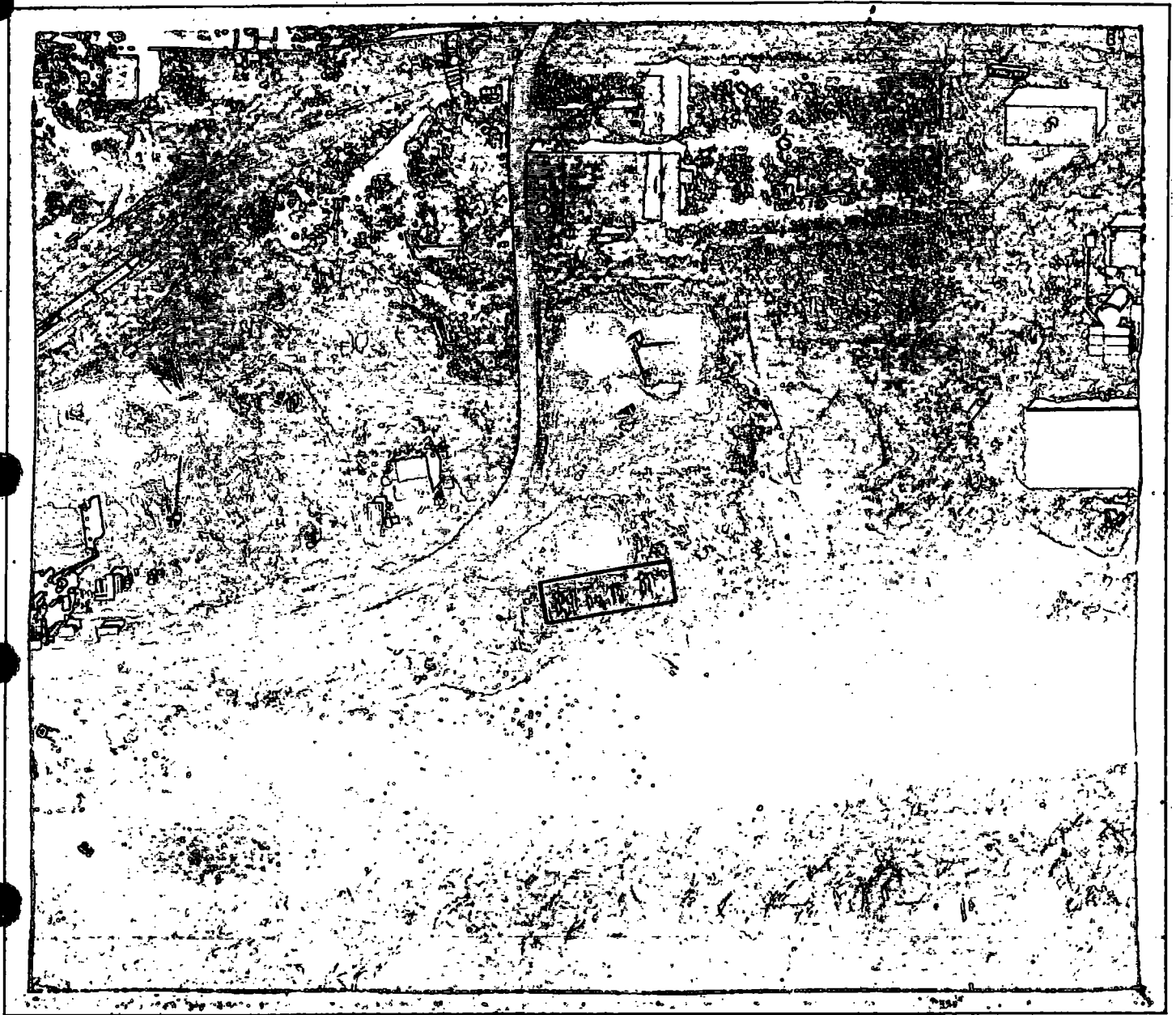


SOURCE: IDOT, 1992. AERIAL PHOTOGRAPH.

APPROXIMATE SCALE: 1" = 200 FEET

1958 AERIAL PHOTOGRAPH

FIGURE 2-3



SOURCE: IDOT, 1992. AERIAL PHOTOGRAPH.

APPROXIMATE SCALE: 1" = 200 FEET

1975 AERIAL PHOTOGRAPH

FIGURE 2-4

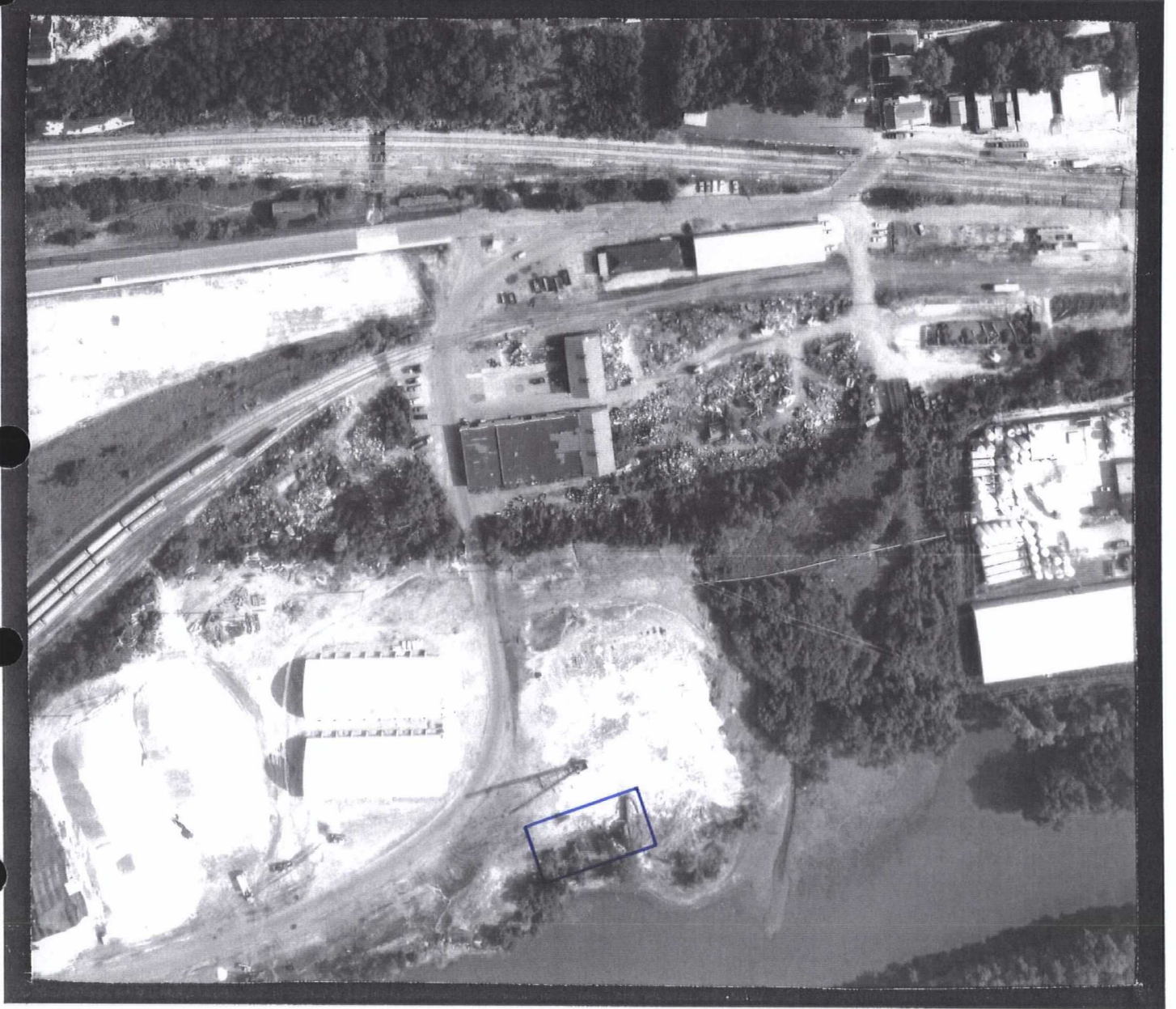


SOURCE: IDOT, 1992. AERIAL PHOTOGRAPH.

APPROXIMATE SCALE: 1" = 200 FEET

1988 AERIAL PHOTOGRAPH

FIGURE 2-5



SOURCE: IDOT, 1992. AERIAL PHOTOGRAPH.

APPROXIMATE SCALE: 1" = 200 FEET

1990 AERIAL PHOTOGRAPH

FIGURE 2-6

company was dissolved. The assets of this company were liquidated and sold. Mr. Hollerich's brother-in-law, John Livick, who operated an asphalt company, bought some of these assets. Mr. Livick's company merged with some other companies and ultimately became a part of the Central Illinois Contracting Corporation. Central Illinois Contracting Corporation was a Delaware corporation that qualified in Illinois in December of 1970. The owner of Central Illinois Contracting Corporation is Leonard J. Trovero.

Negative environmental impacts from the tanks were first noted in March of 1990. On the morning of March 21, 1992, two fishermen discovered what appeared to be an oil slick floating on the I & M Canal. The spill was reported to Conservation Police Officer Scott Travi. Todd Hudson, manager of Tabor Grain at that time, notified Officer Travi that the oil-like substance on the I & M Canal appeared to be coming from one of the above ground storage tanks.

Officer Travi and Officer Eric Anderson went to the USEPA/I & M Canal site to answer the complaint. When the two officers arrived at the site, they contacted Officer Harris Brewer and Lieutenant Jim Thomas whom had been receiving complaints that oil was flowing into the Illinois River from the I & M Canal.

The afternoon of the discovery, Bill Kurtz, of Tabor Grain, showed Officer Travi and Officer Anderson to the leaking tank. A large amount of what appeared to be oil was

observed below the tank, in the I & M Canal and on the north and south embankments of the canal. Following this, two men employed by Len Trovero arrived at the USEPA/I & M Canal site. One of the Trovero employees told Officer Travi that the tanks belonged to Central Illinois Contracting Corporation, a company owned by Len Trovero. Charles Trovero, Len Trovero's son, told Officer Travi that the tanks belonged to Trovero Construction, a company also owned by Len Trovero. As a result, CMC, a cleanup contractor, was employed by Mr. Trovero's company. However, when Len Trovero arrived at the site he disclaimed the tanks.

A floating boom was placed in the canal in efforts to contain the spill. Following this the IEPA and USEPA were informed of the spill.

USEPA on-scene coordinator Vernita Simon arrived at the USEPA/I & M Canal site at approximately 4:30 PM on March 21, 1990, at which time she was brought up to date on the status of the site. After seeing where the spill had reached the opposite bank, Ms. Simon concurred that cleanup was justifiable.

On March 22, 1990, Mr. Hudson, of Tabor Grain, gave a voluntary statement to Officer Travi. Mr. Hudson professed that he spoke to a former mayor, Mayor Gunia, about the tanks being removed. As a result, Mr. Len Trovero contacted Mr. Hudson at which time he told Mr. Hudson that the tanks were his (Mr. Trovero's) and he had permission to store them on city property. Another source suggests that Mayor Gunia gave

Mr. Len Trovero permission to place the tanks in the area, thinking it was city property when actually it is the property of the Illinois Department of Conservation.

Mr. Len Trovero had arrived at the site by March 23, 1990, at which time he estimated that 1500 gallons of material had been released from the tank. The material had escaped through a torn valve located at the bottom of the tank. CMC proceeded to close the opening with a metal plate.

On the afternoon of March 23, 1990, the USEPA's Technical Assistance Team (TAT) was tasked to assist at the USEPA/I & M Canal site. The TAT believed contamination had occurred at an earlier date because trees on both the north and south banks were tainted with black stains four to five feet above the current water level. They also stated that some stains appeared to be older than others.

A vacuum truck was used as a means of removing some of the spilled material from the water surface of the I & M Canal. Stained soil and debris was removed from the southern bank of the I & M Canal. A backhoe was used to excavate contaminated soil, debris and shrubbery from the northern bank of the canal. Two dump truck loads were taken off site. They also placed a berm around some of the material that had collected on the soil adjacent to the tank.

Also on March 23, 1990, a Trovero representative stated that CMC had cleaned up the spill to his satisfaction. However, Ms. Simon requested that the boom be left in the canal because the cleanup was not yet completed. CMC left

the boom and also spread a four-inch layer of sand over the seep in attempts to better contain it. However, the TAT observed the black substance continuing to flow into the I & M Canal and 20 to 30 square yards of contaminated sediments along the waterway.

The TAT conducted a Spill Protection Control and Countermeasure (SPCC) inspection on March 26, 1990. As a part of the SPCC inspection, the TAT collected three samples from the seep material. One was taken from the pooled material beneath the tank, the second from the seep along the bank and the third from sediments along the I & M Canal. These samples were tested for pH, flash point, polychlorinated biphenyls (PCB's), cyanide, sulfide, phenols and F-listed solvent analysis under TAT Analytical Services.

On March 27, 1990, after learning that a hazardous waste generator identification number would be assigned to the site, Mr. Trovero requested that the USEPA take over the responsibility for cleanup. The USEPA was granted CERCLA immediate removal funds for the cleanup and stabilization of the spill. O.H. Materials was hired by the USEPA as the primary contractor.

The following day a sheen and the booms remained on the surface of the I & M Canal and the spill was noted as having flowed further down the embankment. O.H. Materials applied sorbent pads to remove the oil-like sheen from the water surface and excavated trees and soil.

The boom was removed on March 29, 1990. Mr. Trovero had

the two dump trucks of contaminated soil returned to the site. Ms. Simon accepted the responsibility of the contaminated soil that was returned.

During the ongoing excavation by O.H. Materials, debris in the embankment made it appear that it had been used as a landfill at one time. Some of Mr. Trovero's employees mentioned that the area had been used for unregulated dumping over a period of decades. Large pieces of asphalt were also found in the embankment.

March 30, 1990 was the final day of excavations at the USEPA/I & M Canal site. O.H. Materials removed the black material that was steadily leaching down the embankment and then covered the excavated area with a mixture consisting of sand and soil. The excavated soil occupied two roll off boxes and four dump trucks. On April 13, 1990, the contaminated soil was taken to a special waste permitted facility, Waste Management, Inc., which is located in Elgin, Illinois. The tanks were not removed from the site.

Prior to sampling, a representative of Trovero Construction reported that some of the tanks were empty while others probably contained high viscosity M.C. asphalt oil. Analytical results from the March 1990 sampling event indicated that the three samples collected from the spilled material are characteristic of petroleum-based oil.

2.4 APPLICABILITY OF OTHER STATUTES

This section discusses the applicability of any other

environmental statutes with regards to the USEPA/I & M Canal site.

There are no known records indicating that the USEPA/I & M Canal site is or ever has been listed as a facility, generator, etc., permitted or not, under any environmental statute. This is probably due to the tanks being placed along the bank of the I & M Canal without the permission of the proper authorities, and therefore not being placed under any kind of regulations. This is also relational to the fact that the tanks seem to have no direct connection to any specific industry located in the proximal area of the USEPA/I & M Canal site currently or in the past.

3. SITE INSPECTION ACTIVITIES & ANALYTICAL RESULTS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA Screening Site Inspection conducted at the USEPA/I & M Canal site. Specific portions of this section contain information pertaining to the site representative interview, reconnaissance inspection, field activities and analytical results. The Screening Site Inspection for the USEPA/I & M Canal site was conducted in accordance with the site inspection work plan which was developed and submitted to the U.S.EPA Regional Offices prior to the initiation of field activities.

The U.S. Environmental Protection Agency's Potential Hazard Waste Site Inspection Report (Form 2070-13) for the USEPA/I & M Canal site is located in Appendix B of this report.

3.2 RECONNAISSANCE INSPECTION

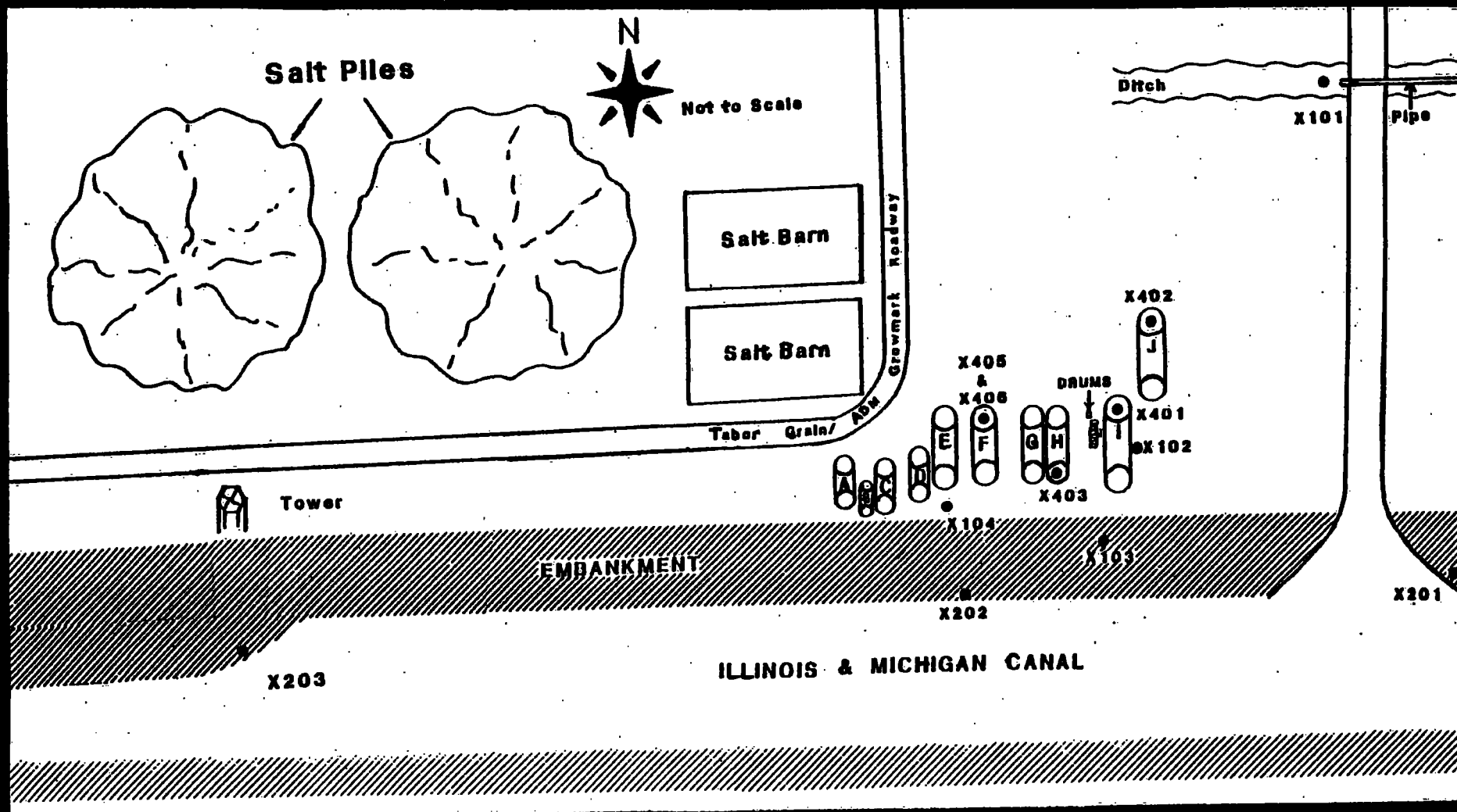
On May 6, 1992, a brief reconnaissance visit to the USEPA/I & M Canal site was conducted by Ken Corkill and Sheila Murphy. Only IEPA personnel were present at this time. The main objective of this visit was to determine if the tank contents would be accessible for proposed sampling. The conclusion was made that a step ladder and some type of long sampling tool would be necessary for the Screening Site Inspection (SSI) sampling task.

3.3 SITE REPRESENTATIVE INTERVIEW

On May 13, 1992, the IEPA sampling team, consisting of Scott Davis, Greg Dunn, Al Kirwan, Sheila Murphy and Judy Triller, arrived at the USEPA/I & M Canal site at approximately 9:00 AM. At this time, Ms. Murphy met with the manager of Tabor Grain, Janice Phelps. Ms. Phelps instructed Vince Horton, assistant manager, to accompany the IEPA sampling team to the location of the tanks. No one representing ownership of the tanks was present during the CERCLA Screening Site Inspection.

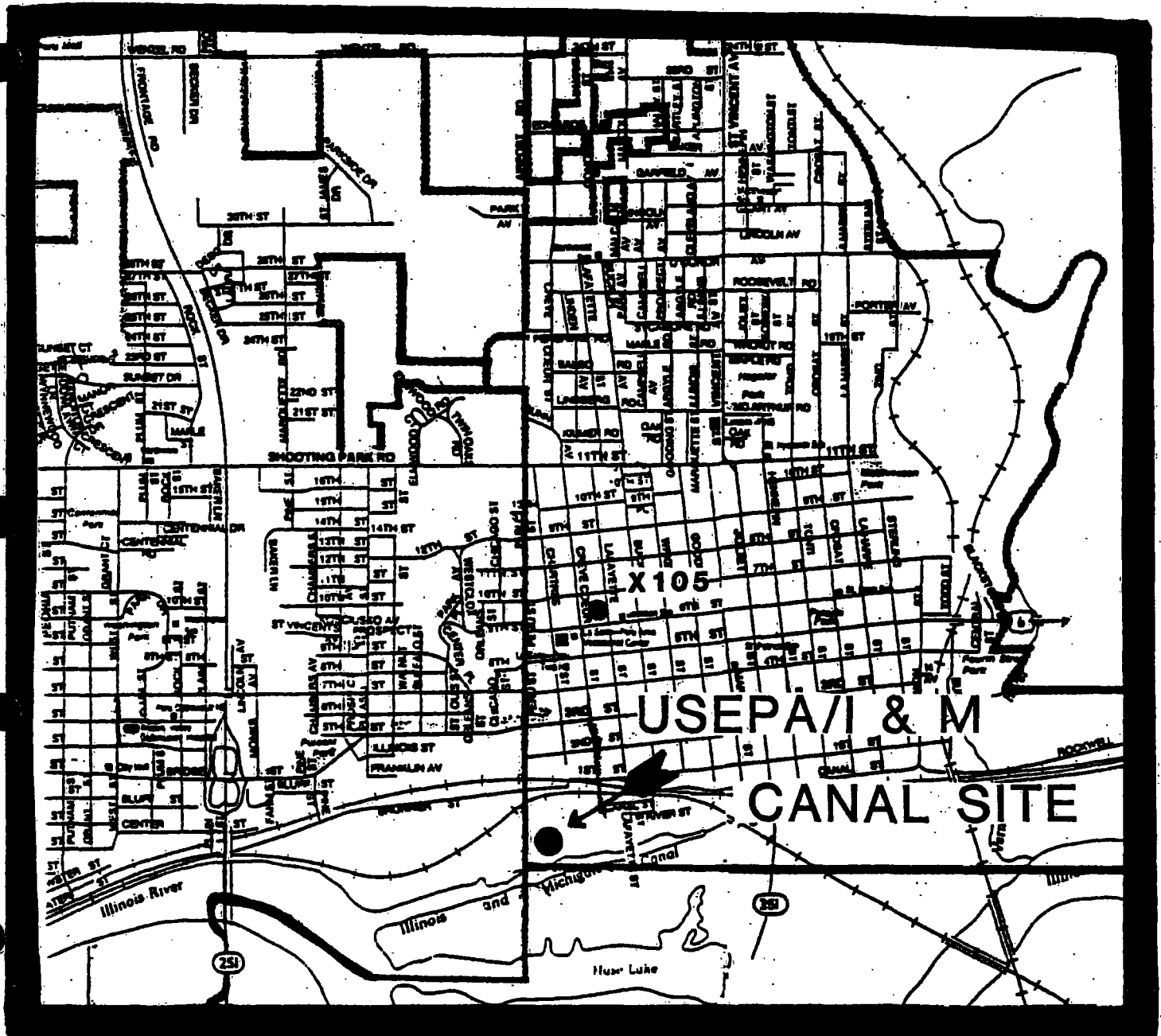
3.4 SOIL/SEDIMENT SAMPLING

On May 13, 1992, Illinois Environmental Protection Agency (IEPA) personnel collected a total of eight soil/sediment samples (see Figures 3-1 and 3-2 for all sampling locations) on site and in the proximity of the site within areas of suspected contamination. The main objective of these soil/sediment samples was to determine if any U.S. EPA Target Compound List (TCL) contaminants were present at the site or at potential receptors of concern. (The Target Compound List is provided in Appendix C of this report.) The following table details individual samples with their locations, depths and physical appearances. (Refer to the analytical data in Appendix F for detection limits associated with each sample point.)



**USEPA/I & M CANAL
Sampling Locations**

FIGURE 3-1



USEPA/I & M CANAL

Sampling Location

FIGURE 3-2

3-4

CERCLA SCREENING SITE INSPECTION FOR USEPA/I & M CANAL

TABLE 3-1

Soil Sample Descriptions

<u>Sample</u>	<u>Depth</u>	<u>Appearance</u>	<u>Location</u>
X101	4-8"	Brown, sandy/pebbly fill material	In drainage area north of tanks & east of Tabor salt barns
X102	0-3"	Black tar-like liquid	Beneath Tank I
X103	0-3"	Decayed organic material	47 1/2' south of center of Tank I & 11' west
	3-12"	Wet brown/orange sandy pebbly material	
X104	0-4"	Black tar-like sludge; hard consistency	16' 1" south southwest of center of Tank E's south end
X105	0-6"	Dark brown silty loam	Ballpark at northeast intersection of 6th St. & Creve Coeur
X201	2-6"	Brown silt	Along I & M Canal, on land halfway between two creeks east of the site
X202	0-3"	Grey/black silty mud with thin overlying layer of orange/red material	75' south from the east side of Tank F & 11' west
X203	2-6"	Brown fine grain silt with what appeared to be coal finds	75' south of southeast post of Tabor water tower & 85' 6" east

Sample X101 was collected with the use of a shovel. The rest of the above soil/sediment samples were collected taken with stainless steel trowels. Decontamination of equipment was done at the IEPA's warehouse prior to and following the sampling portion of the SSI. Decontamination procedures

include the cleaning of the equipment with liquid alconex and warm water, rinsing with tap water, rinsing with a 50% acetone 50% distilled water mixture, rinsing with warm tap water and a final rinsing of distilled water. The trowels and shovel dried on paper towels and were wrapped in aluminum foil.

3.5 WASTES SAMPLING

Waste sampling was conducted May 13, 1992 by the screening site inspection team. Illinois EPA personnel took a total of five waste samples; all of which were derived from the on site tanks. Level C protection was utilized during the sampling of the tanks. Locations of the tanks can be found on Figure 3-1.

Samples X401, X402, X403, X405 and X406 were taken with the aid of an approximately 10' long PVC pole. Duct tape was used to attach a glass jar to the end of the pole. A clean jar was attached to the pole for each sample and duct tape was used to cover the portion of the pole that was placed in the material. Once the sampling of the tanks was completed, the sampling tools were disposed of on site.

TABLE 3-2

Waste Sample Descriptions

<u>Sample</u>	<u>Depth</u>	<u>Appearance</u>	<u>Location</u>
X401	2-3" below surface of material	Thick black tar-like liquid	Tank I

X402	0-2" from the surface of the material	Dry taupe in color, fine grained material with the black tar-like liquid	Tank J
X403	2-3" below surface of material	Thick black tar-like liquid	Tank H
X404	Not able to sample due to material being impenetrable	Very thick black tar-like solid	Tank G
X405 & X406	2-3" below surface of material	Black tar-like very thick liquid	Tank F

A sample from Tank G, X404, had originally been planned. However, X404 was not taken because the sampling tool was not able to penetrate the contents of Tank G.

3.6 SURFACE WATER SAMPLING

There were no surface water samples taken during the CERCLA Screening Site Inspection for the USEPA/I & M Canal. Sediment sampling was chosen instead of surface water sampling for the Illinois & Michigan Canal.

3.7 ANALYTICAL RESULTS

Chemical analysis of the soil/sediment samples and samples collected from the tanks revealed the presence of both organic and inorganic compounds. These include volatiles, semi-volatiles, pesticides and common soil/sediment constituents.

See table 3-3 for the Sample Summary Table for the summary of the soil/sediment sample and tank sample results. The Sample Summary Table and complete laboratory analytical data of these results can be found in Appendix F of this report.

SAMPLING POINT	X 105 5-13-92	SEI Bldgnd X 101 5-13-92	X 102 5-13-92	X 103 5-13-92	X 104 5-13-92	SEI Bldgnd X 201 5-13-92	X 202 5-13-92	X 203 5-13-92	X 401 5-13-92	X 402 5-13-92	X 403 5-13-92	X 405 5-13-92	X 406 5-13-92
PARAMETER	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
VOLATILES													
Methylene Chloride	---	---	2000.0 J	---	---	---	---	---	1800.0 J	---	1800.0 J	---	---
Acetone	---	---	---	---	---	1100.0 D	230.0	---	---	---	---	---	---
Toluene	8.0 J	8.0 J	---	---	---	---	---	3.0 J	3000.0	---	3000.0 J	---	---
Ethylbenzene	---	---	---	---	---	---	---	---	11000.0	1500.0 J	17000.0	1200.0 J	---
Xylenes (m,p)	---	8.0 J	---	---	2000.0 J	---	---	---	4000.0	8000.0 J	8000.0	1200.0	17000.0
SEMIVOLATILES													
Naphthalene	---	---	---	---	---	---	---	1200.0 J	17000.0 J	---	17000.0 J	18000.0 J	---
2-Methylnaphthalene	---	---	220000.0 J	---	130000.0 J	---	---	2400.0 J	90000.0	20000.0 J	61000.0	42000.0 J	28000.0 J
Fluoranthene	---	470.0 J	20000.0 J	2100.0 J	---	---	---	1400.0 J	80000.0 J	28000.0 J	90000.0 J	---	---
Pyrene	---	1500.0 J	---	1900.0 J	---	1000.0 J	---	---	---	---	---	---	---
Benzo(a)anthracene	---	300.0 J	12000.0 J	800.0 J	---	1100.0 J	1200.0 J	1000.0 J	---	12000.0 J	18000.0 J	---	---
Chrysene	---	---	---	1100.0 J	---	---	---	---	12000.0 J	---	---	---	---
Benzo(b)fluoranthene	---	---	---	1600.0 J	---	---	1200.0 J	---	16000.0 J	---	---	---	---
Benzo(k)fluoranthene	---	370.0 J	---	---	---	---	---	---	---	---	---	---	---
Benzo(e)pyrene	---	370.0 J	---	900.0 J	---	---	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	---	---	---	1100.0 J	---	---	---	---	20000.0 J	---	---	---	---
PESTICIDES													
Allyl-BHC	---	---	---	---	---	1.8 JPD	---	---	---	---	---	---	---
Aldrin	---	---	---	24.0 JD	---	---	---	---	---	---	---	---	---
Dieldrin	---	---	1800.0 P	---	---	---	---	---	8100.0 D	2000.0 PD	2400.0 D	280.0 JPD	290.0 P
4,4'-DDE	---	---	---	25.0 JPD	---	---	---	---	---	---	---	---	---
Endrin	---	---	---	47.0 JPD	---	12.0 JD	15.0 JPD	---	---	---	---	---	---
Endosulfan II	---	---	1700.0 P	35.0 JPD	---	---	---	---	---	---	---	---	---
4,4'-DDD	---	---	---	---	---	---	---	---	---	---	---	---	---
4,4'-DDT	---	---	---	12.0 JPD	---	44.0 JPD	20.0 JPD PD	---	390.0 JPD	30.0 JPD	290.0 P	---	---
alpha-Chlordane	---	---	---	---	---	22.0 JPD	12.0 JPD	---	---	---	---	---	---
gamma-Chlordane	---	---	---	---	---	15.0 JPD	---	---	---	---	---	85.0 JPD	85.0 J
Toxaphene	---	---	---	---	---	---	---	---	2400.0 JPD	---	---	---	---
Aroclor-1242	---	---	---	---	---	---	---	4000.0 D	16000.0 PD	---	---	---	---
Aroclor-1248	---	---	---	440.0 JPD	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	710.0 PD	---	---	300.0 JPD	---	---	---	---	---	---
Aroclor-1260	---	---	---	540.0 JPD	---	350.0 JPD	---	---	---	---	---	---	---
INORGANICS													
Aluminum	18000.0	10500.0	116.0	17000.0	746.0	28000.0	18100.0	8000.0	---	---	---	---	---
Arsenic	5.00	23.95	2.0 BJ	4.80 J	1.20 BJ	9.30	11.20	5.80	---	20.90	---	---	---
Boron	175.0	115.0	2.80 B	54.30	13.00 B	210.0	127.0	78.10	8.61 B	4.10 B	2.0 B	1.25 B	1.30 B
Beryllium	0.67	1.50	---	0.82	---	1.20	1.50	1.40	---	---	---	---	---
Chromium	13.1	8.50	0.88	12.75	---	9.30	28.30	3.0	---	36.80	---	---	---
Calcium	12500.0	14200.0	1050.0 B	35000.0	2670.0	30200.0	21500.0	6330.0	---	217.0 B	---	---	---
Chlorine	27.10	34.70	2.8 B	41.30	2.5 B	16.0	31.20	45.90	---	30.10	1.90 B	---	---
Cobalt	8.0	13.30	---	23.20	1.45 B	9.30 B	17.0	10.30	---	17.80	---	---	---
Copper	21.10	26.10	5.40 B	45.30	7.30 B	12.0	26.20	44.30	---	34.20	---	---	---
Iron	20500.0	37800.0	496.0	23000.0	1430.0	28500.0	25300.0	14700.0	53.20	261000.0	89.30	37.50 B	32.70 B
Lead	45.00 J	45.0 J	141.0 J	175.0 J	19.30	194.0 J	136.0	57.00 J	2.80 J	9610.0 J	15.30	4.10 J	---
Magnesium	5540.0	5470.0	143.0 B	23000.0	548.0 B	11900.0	8000.0	3520.0	---	---	---	---	---
Manganese	565.0 J	552.0 J	5.40 J	320.0 J	20.30 J	506.0 J	505.0 J	309.0 J	---	355.0 J	---	---	---
Mercury	0.12 J	0.11 J	4.25 J	0.06 BJ	0.03 BJ	0.41 J	0.34 J	0.18 J	0.24 J	251.0 J	---	---	---
Molybdenum	19.30	45.00	32.30	74.30	36.10	193.0	214.0	86.70	---	25.30	42.40	31.20	36.30
Potassium	3080.0	2280.0	---	2040.0	---	4570.0	3050.0	2320.0 J	---	---	---	---	---
Selenium	---	1.80 J	32.30	2.8 J	---	0.44 BJ	1.60 J	---	4.80 J	257.0	1.0 B	0.85 B	0.51 B
Silver	---	---	---	---	---	---	---	0.75	---	---	---	---	---
Sodium	180.0 B	11500.0	---	3500.0	---	1140.0 B	1750.0	---	---	---	---	---	---
Thallium	---	---	---	---	---	---	---	0.45	---	---	---	---	---
Vanadium	54.20	35.40	61.10	27.30	105.0	15.30	53.10	35.0	149.0	8.70	36.40	116.0	36.30
Zinc	236.0	7250.0	36.10	---	67.50	4.5	5590.0	1320.0	---	12700.0	---	---	---

3.8 KEY SAMPLES

Table 3-4 identifies those samples taken during the CERCLA Screening Site Inspection (SSI) which were shown to contain contaminants at a level significantly higher than the background concentrations.

For the review of all contaminants detected in samples taken during the CERCLA SSI, the reader is referred to the Sample Summary Table located on the previous page and in the front of Appendix F of this report.

CERCLA SCREENING SITE INSPECTION FOR USEPA/I & M CANAL

4. IDENTIFICATION OF SOURCES

4.1 INTRODUCTION

This section discusses the various hazardous waste sources which have been identified at this site during the initial stages of the CERCLA site investigation.

Information concerning the size, volume and waste composition of each source has been derived throughout the initial site assessment and the screening site inspection sampling action. It should be pointed out however, that the total number and nature of each of the sources identified below may be subject to change, as the site progresses through the CERCLA site investigation program and receives further investigation.

4.2 TANKS

There are a total of ten tanks that constitute the USEPA/I & M Canal site. Air photography shows that the tanks have been at this location in excess of 30 years. For the tanks that were accessible, a photo-ionization detector (HNU) with an 11.7 eV lamp was used to determine the presence of certain airborne contaminants. The 11.7 Hnu read background at .5 units. Below are descriptions of the individual tanks. Please refer to Figure 3-1 for tank locations.

Tank J was found without any kind of lid. The Hnu reading was 5 units just inside the mouth of the tank. The contents in tank J varied somewhat from the other tanks that

were inspected. Tank J contained some of the black tar-like liquid but also had taupe colored, fine grained material in the bottom. This tank measured 32 feet in length and 7 feet 6 inches in diameter yielding a capacity of approximately 10,000 gallons. Sample X402 was taken from this tank.

The opening of Tank I was found covered by a lid. The Hnu reading just inside the mouth of the tank was 70 units. Tank I was approximately three-quarters full of the black sludge. The measurements for Tank I were the same as those of Tank J. Sample X401 was derived from this tank.

Tank H had also been closed with a lid. The air inside this tank read 40 units on the Hnu. Tank H was approximately two-thirds full. It contained the same type of black tar-like substance. Tank H measured 23 feet in length and 6 inches in diameter which would indicate a volume of approximately 4700 gallons. Tank H is the tank from which sample X403 was collected.

Tank G was found without any form of a cover. The Hnu reading for Tank G was 0 units above background. The tank was approximately two-thirds full of a very thick black liquid. Tank G's measurements were the same as those of Tank H. This tank was not sampled.

Tank F was closed with a lid. Once opened, the Hnu reading of the air within tank F was 75 units. The tank was almost completely full. It, too, contained the black tar-like sludge. Tank F measured 26 feet in length and 6 inches in diameter, allowing a capacity of approximately 5,400

gallons. Samples X405 and X406 were collected from Tank F.

An unsuccessful attempt was made to open Tank E. It appeared that the tank contents had formed a seal with the lid of the tank, making it impossible to open. Tank E measured 31 feet in length and 6 inches in diameter. The estimated volume for Tank E was 6,400 gallons.

Due to poor accessibility (such as a spigot in bad condition and only directed toward the ground), the contents of Tanks D, C, B and A were not accessible.

The approximate measurements of these tanks are as follows:

<u>Tank</u>	<u>Length</u>	<u>Diameter</u>	<u>Volume</u>
D	14'	7'	4,000 gallons
C	14'	7'	4,000 gallons
B	12'	5' 4"	2,000 gallons
A	14'	7'	4,000 gallons

Tank C was observed to have an opening toward the bottom of the tank. The contents of this tank were thought to be of a solid nature, perhaps the sand-like material found in Tank J or the solidified material as in Tank G.

4.3 DRUMS

A total of ten drums were found on site during the CERCLA Screening Site Inspection. Nine of the drums are situated on the west side of Tank I. At least seven of the nine drums contained some kind of material. From the appearance of some black material having drained through bung and pinholes in the drums, the drums probably contain the same or very similar materials as the tanks.

The two other drums appeared to be empty. One of which had large holes in it and had been crushed. The remaining drum was found just south of Tanks D and E. Like the other drums, it too was found lying on its side. This drum was noted as being in the same area of some seepage. However, it was difficult to determine if the seep had come from the drum or one of the tanks. (Please see photographs A-2, A-3, A-4 and B-10 in Appendix D of this report.)

4.4 CONTAMINATED SOILS

In correlation to the soil samples collected during the May 1992 SSI for the USEPA/I & M Canal site, analytical results indicate that the soil materials abutting the tanks are contaminated with hazardous substances, several of which were detected in samples derived from the tanks.

In the spring of 1990, some of the soils contaminated by the seepage from the tank were excavated. However, during the CERCLA SSI, the black material was observed in two different locations on the ground. The first was directly below Tank I and the second just south of tanks D and E. Obviously, contaminated soils still exist at this site.

5. MIGRATION PATHWAYS

5.1 INTRODUCTION

This section includes information that may be useful in analyzing the USEPA/I & M Canal's impact on the four migration pathways identified in CERCLA's hazard ranking system (HRS). The migration pathways which will be analyzed in this section include groundwater, surface water, air and soil exposure.

5.2 GROUNDWATER PATHWAY

Nearby topography slopes toward the south from the city of La Salle toward the I & M Canal. The proximal land north of the tanks is fairly level. However, just south of the tanks is an embankment that slopes toward the I & M Canal. The onsite surface soils consist of man-made fill material. The fill material overlies the Wisconsin glacial till.

Geological documents (please refer to the Bibliography found in section six of this report) suggest the geology in the La Salle area is somewhat erratic due to the La Salle anticline. The west side of the La Salle anticline features a depression with underlying bedrock that dips toward the west then immediately rises straight up. To the east of the anticline's fold, the ground surface is step-like. Unlike the anticline's west side, this strata has a downward gradient that slopes toward the east. From the north is a downward gradient of a strike which angles toward the

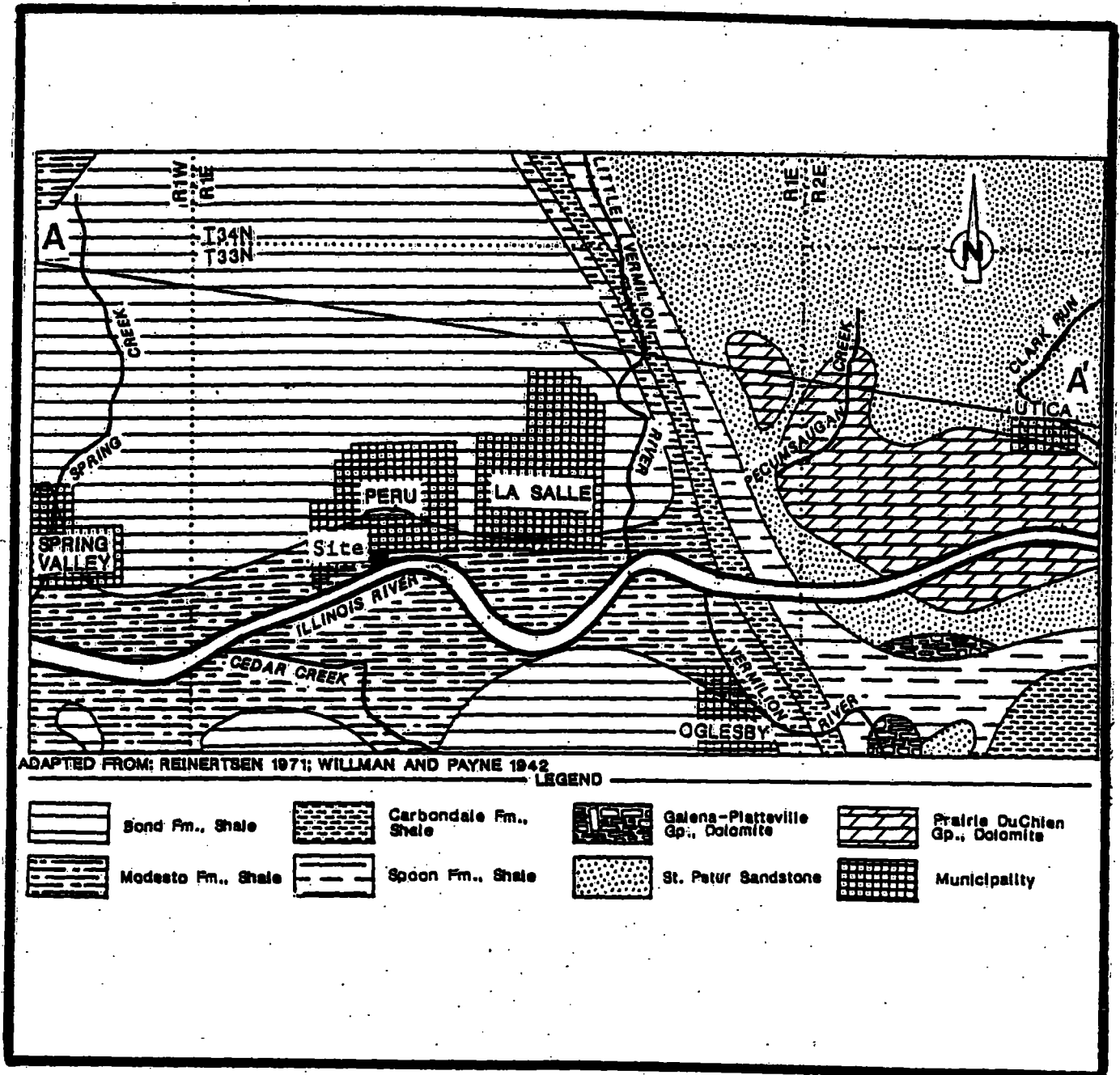
Illinois basin. Older structures are exposed along the anticline's apex due to the erosion of previously deposited formations. (Please refer to Figure 5-1 and 5-2.)

A multiple aquifer system consisting of sand and gravel, limestone and sandstone, is the supplier of drinking water within a four-mile radius of the USEPA/I & M Canal site. According to ISWS (Illinois State Water Survey) well logs, the depths of these wells are as shallow as 11 feet (sand and gravel) and as deep as 285 feet (sandstone) and 423 feet (limestone). The municipal wells of La Salle are 60 to 75 feet deep. They are completed in the alluvial deposits of the Illinois River. However, approximately two miles west of these are the Peru municipal wells. These wells are finished in St. Peter Sandstone at depths ranging from 2,591 to 2,763 feet.

Overlying the Silurian-Niagaran Limestone is a confining layer of Maquoketa. Thus, the aquifer of concern is the shallow sand and gravel. The closest known municipal wells and residential wells completed in this aquifer are slightly more than one mile from the site. Because there are no known nearby wells used for potable water, no groundwater samples were collected during the CERCLA Screening Site Inspection for the USEPA/I & M Canal site.

5.3 SURFACE WATER PATHWAY

Approximately 70 feet south of the site is the Illinois & Michigan Canal. About 1/4 of a mile downstream of the



LA SALLE ANTICLINE CROSS-SECTION LOCATION MAP



FIGURE 5-1

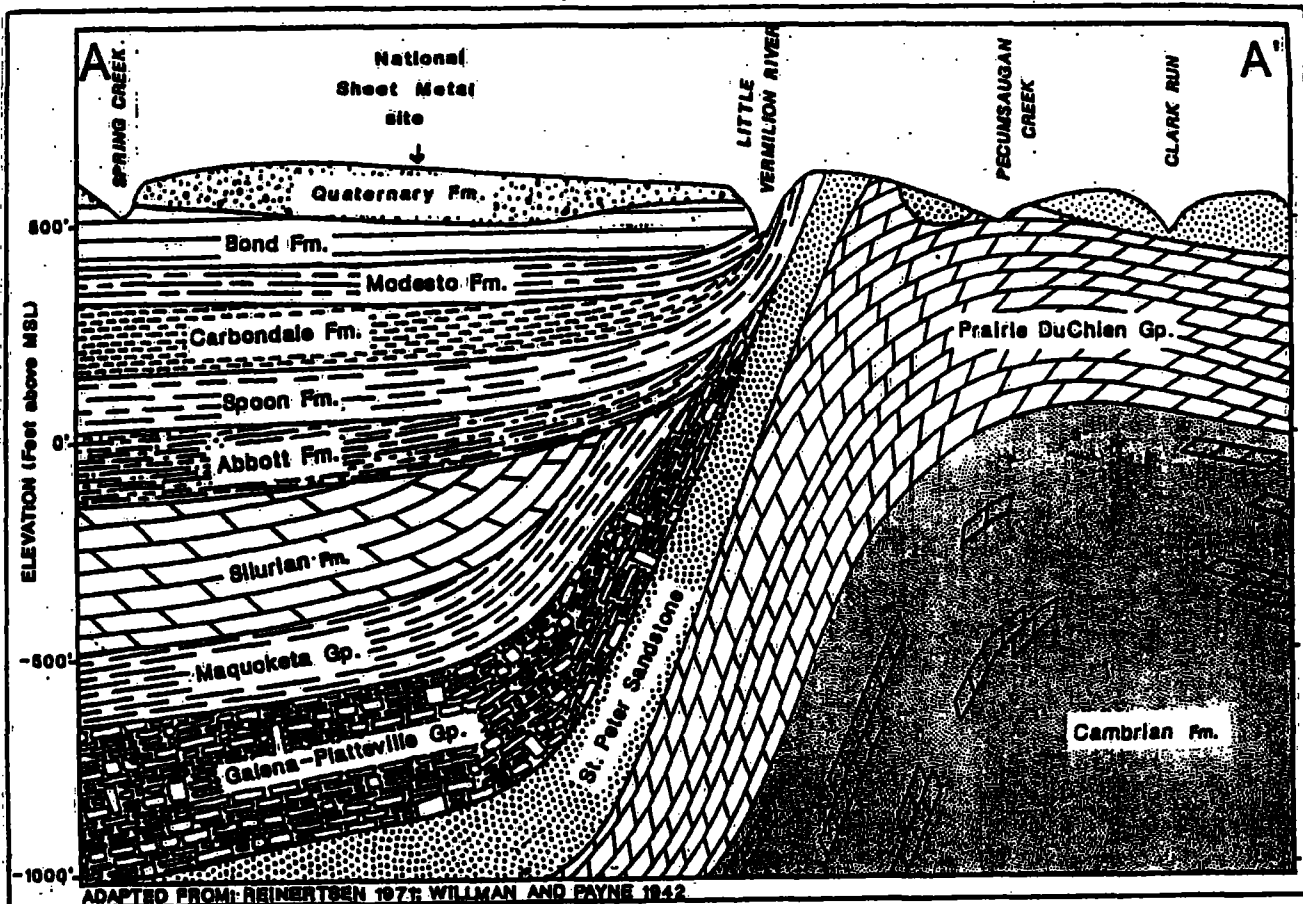


FIGURE 5-2

GENERALIZED CROSS-SECTION OF BEDROCK
FORMATIONS ACROSS THE LA SALLE ANTICLINE

0 1 2 SCALE 3 4 MILES

site, the I & M Canal merges into the Illinois River. The day on which the spill was initially reported, two Conservation Police Officers had been answering complaints from fishermen who stated that oil was flowing from the canal into the Illinois River.

The Illinois & Michigan Canal is known as National Historic Landmark. Both the I & M Canal and the Illinois River are used for recreational purposes. During the investigation of the spill, several fish and a blue heron were found dead. It is quite possible that more wildlife was affected by the release but not discovered.

Extending 15 miles downstream from the USEPA/I & M Canal site are several areas of sensitive environments. Please see Appendix A for the 15 mile downstream surface water map and sensitive environment locations. According to the National Wetland Inventory Maps, wetlands are located along the bank of where the tanks are situated and are dispersed adjacent to the Illinois River for the extent of the 15 miles downstream. Documents record black stains being found on trees on both sides of the bank of the I & M Canal. This would indicate that contamination has reached the nearby wetlands. There are approximately 40 acres of wetlands within a 1/4 mile radius of the site and 75 acres within a 1/4 to 1/2 mile radius of the site.

Spring Lake is a natural area located between Illinois River miles 210 and 212 (approximately 13 miles downstream of the site). The rookery of the state-endangered Great Egret,

Casmerodius albus, is located in this natural area. State-managed areas designated for wildlife are also located downstream of the site. Within one mile downstream of the 15 mile mark is a population of the Decurrent False Aster (Boltonia decurrens). This plant is listed as being both a state and federal-threatened species.

There are no known surface water intakes documented within 15 miles downstream of the surface water route.

During the May 1992 CERCLA SSI, three sediment samples were taken from the Illinois & Michigan Canal. One of the downgradient sediment samples, X203 indicated the presence of Aroclor-1242. Locations of the aforementioned samples can be found in Figures 3-1 and 3-2 of this report.

The USEPA/I & M Canal site is located within an area of a 100-year flood boundary according to the National Flood Insurance Rate Maps.

5.4 AIR PATHWAY

During the CERCLA Screening Site Inspection, no documented releases to the air were observed. A photo-ionization detector (HNU) with an 11.7 eV lamp was used to determine the presence of certain airborne contaminants in the tanks. The highest reading on the HNU was from Tank F at 75 units. Due to readings greater than five units over background, samplers wore respirators while carrying out the task of sampling.

5.5 SOIL EXPOSURE PATHWAY

Soil/Sediment samples collected during the Screening Site Inspection suggest a potential for direct contact with hazardous constituents. There are no known residents, schools or daycare establishments within 200 feet of the site. There is, however, an access road used by Tabor Grain employees everyday. This road is approximately 75 feet from the tanks. On the day of the reconnaissance visit prior to the Preliminary Assessment, Tabor Grain employees were observed working at an estimated 40 feet from the tanks.

There is no means by which access to the tanks is restricted. There is no type of diking surrounding the area of the tanks. Other than the tanks themselves, there is no type of containment for the hazardous contents. During the CERCLA SSI, materials that had leaked from the tanks were observed on the ground.

Organic analytical data of soil samples X102 and X104 indicate the presence of hazardous contaminants. Analytical data collected from sample X104 show the occurrence of the volatile Xylene at 2,000 PPB (Parts Per Billion) and 2-Methylnaphthalene at 130,000 PPB.

Results of sample X102 revealed the greatest number of contaminants. The volatile Methylene Chloride was detected in sample X102 at 2,000 PPB. The semi-volatiles found in this sample include 2-Methylnaphthalene at 220,000 PPB, Phenanthrene at 200,000 PPB and Pyrene at 120,000 PPB. Also, found in X102 were the pesticides Dieldrin at 1,800 PPB and

Endosulfan II at 1,700 PPB. Although the pesticide Edosulfan II was not detected in samples taken from the tanks, the tanks should remain as a potential source due to the fact that not all the tanks were sampled. A May 1990 memorandum from T. Werner, mentions that Tabor Grain had been storing salt and possibly agricultural chemicals on land just north of the tanks. Janice Phelps, who has been at the Tabor Grain facility for fifteen years, said that to the best of her knowledge, Tabor Grain has handled some fertilizers but no pesticides.

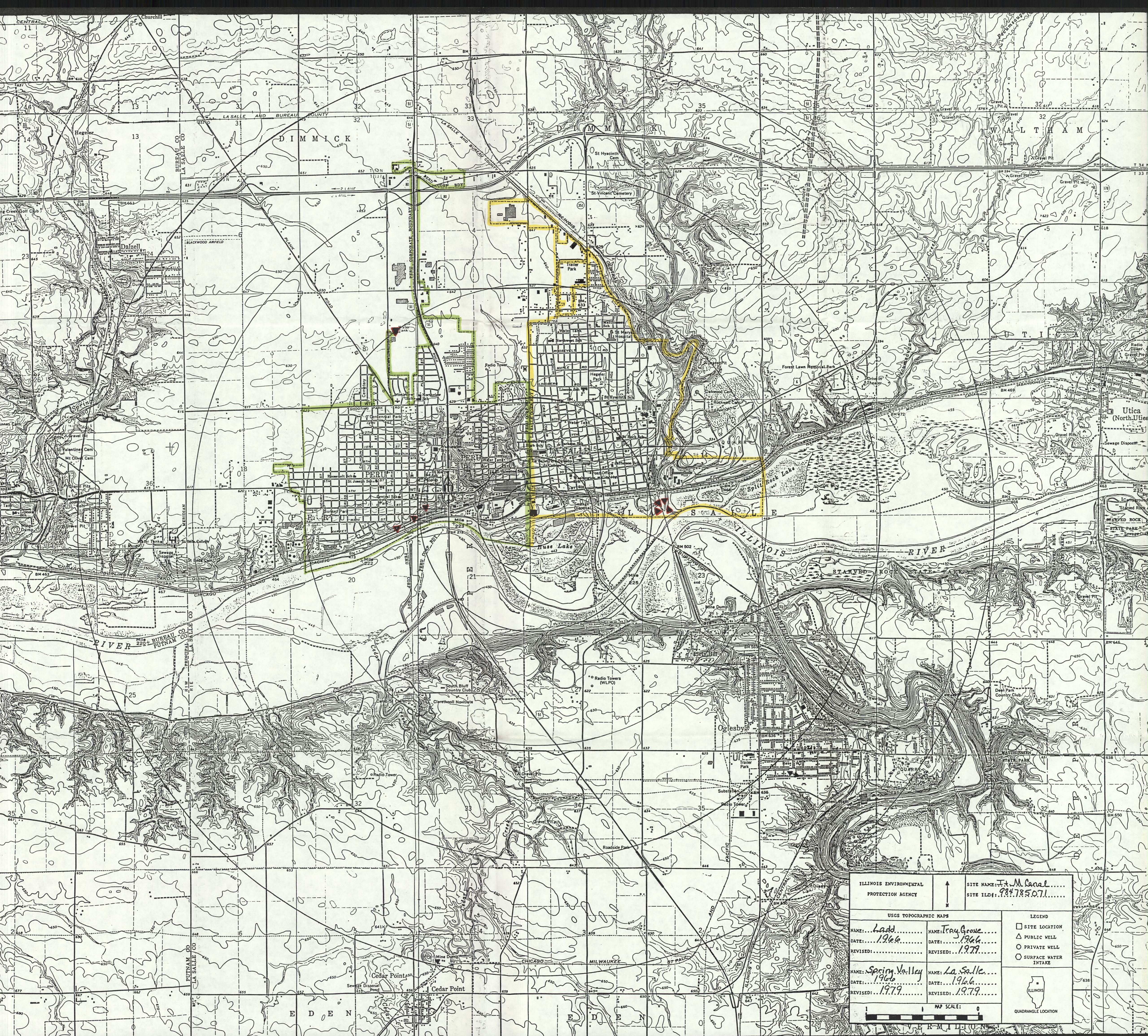
Historical records document the presence of contaminated soils on site. Thus, the soil pathway should be considered as a potential source of contamination to the Illinois & Michigan Canal, adjacent wetlands and nearby workers at the Tabor Grain facility.

6. BIBLIOGRAPHY

- Illinois Environmental Protection Agency, 1991, Potential Hazardous Waste Site Preliminary Assessment for the USEPA/I & M Canal site, ILD984785071, prepared by Sheila Murphy, Springfield, IL.
- Illinois State Geological Survey, 1956, Groundwater in Northwestern Illinois, Circular 207
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- Illinois State Geological Survey, 1919, The Artesian Waters of Northeastern Illinois, Bulletin 34
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- U.S. Department of Housing and Urban Development, 1985, Flood Insurance Rate Map, City of La Salle, Illinois
- U.S.G.S., 1979, La Salle, IL. Quadrangle, 7.5 Minute Series.
- U.S.G.S., 1966, Ladd, IL. Quadrangle, 7.5 Minute Series.
- U.S.G.S., 1979, Spring Valley, IL. Quadrangle, 7.5 Minute Series.
- U.S.G.S., 1979, Troy Grove, IL. Quadrangle, 7.5 Minute Series.

APPENDIX A

**SITE FOUR MILE RADIUS MAP
&
SURFACE WATER MAP**



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY		SITE NAME: <u>F.M. Canal</u> SITE ID: <u>934.785071</u>
USGS TOPOGRAPHIC MAPS		
NAME: <u>Ladd</u> DATE: <u>1966</u> REVISED: <u>1979</u>	NAME: <u>Tray, Greene</u> DATE: <u>1966</u> REVISED: <u>1979</u>	<div><input type="checkbox"/> SITE LOCATION <input type="checkbox"/> PUBLIC WELL <input type="checkbox"/> PRIVATE WELL <input type="checkbox"/> SURFACE WATER INTAKE</div> <div> QUADRANGLE LOCATION</div>
NAME: <u>Spring Valley</u> DATE: <u>1966</u> REVISED: <u>1979</u>	NAME: <u>La Salle</u> DATE: <u>1966</u> REVISED: <u>1979</u>	
MAP SCALE: 0 1 2 3 4 5 6 7 8 9 10		

APPENDIX B

U.S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984795071

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) USEPA/Illinois + Michigan Canal		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER S.W. of Chartres + Brunner Streets	
03 CITY La Salle	04 STATE IL	05 ZIP CODE 61301	06 COUNTY La Salle
09 COORDINATES LATITUDE 41° 19' 22" - LONGITUDE 89° 04' 19" -		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 5/13/92 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION prior to 1958 present BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input checked="" type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

05 CHIEF INSPECTOR Sheila Murphy	06 TITLE Life Science Career Trainee	07 ORGANIZATION IEPA	08 TELEPHONE NO. (217) 782-6760
09 OTHER INSPECTORS Scott Davis	10 TITLE Life Science Career Trainee	11 ORGANIZATION IEPA	12 TELEPHONE NO. (217) 782-6760
Greg Dunn	Environmental Protection Specialist	IEPA	(217) 782-6760
Al Kirwan	Environmental Protection Specialist	IEPA	(217) 782-6760
Judy Triller	Environmental Protection Specialist	IEPA	(217) 782-6760
			()

13 SITE REPRESENTATIVES INTERVIEWED Janice Phelps	14 TITLE General Manager	15 ADDRESS Tabor Grain Co. La Salle, IL	16 TELEPHONE NO. (815) 223-7907
Vince Horton	Assis. Manager	Tabor Grain Co. La Salle, IL	(815) 223-7907
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 9:00 AM	19 WEATHER CONDITIONS Sunny + Windy ~ 65°F
--	----------------------------------	---

IV. INFORMATION AVAILABLE FROM

01 CONTACT Mark Ishihara	02 OF (Agency/Organization) Archer Daniels Midland Company	03 TELEPHONE NO. (217) 424-5558
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Sheila Murphy	05 AGENCY IEPA	06 ORGANIZATION RPMS
	07 TELEPHONE NO. (217) 782-6760	08 DATE 9.9.92 MONTH DAY YEAR



I. HIGHLY VOLATILE
 J. EXPLOSIVE
 K. REACTIVE
 L. INCOMPATIBLE
 M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☒ OBSERVED (DATE: March 1990)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

3/21/90 an observed release of an oil-like substance was observed flowing in to the Illinois + Michigan Canal. Sediment samples taken during the 5/92 SST indicate contamination is present.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

The abutting land of the tanks is not intended for public use. There is no means by which to hinder contact to the land the tanks are on or the tanks themselves.

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: <1 ^(Acres)

02 ☒ OBSERVED (DATE: 3/90 + 5/92)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

In March of 1990 + May 1992, observed releases to soil from the tanks + drums were observed. Analytical results show the occurrence of hazardous constituents to the soil near the tanks.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None documented or observed.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D984785071

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: March 1990)

☐ POTENTIAL

☐ ALLEGED

On 3/21/90 trees on the north + south banks of the I+M Canal were observed to be tainted with black stains. Wetlands are located along the I+M Canal + the Illinois River.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☒ OBSERVED (DATE: March 1990)

☐ POTENTIAL

☐ ALLEGED

During the March 1990 investigation a blue heron + several fish were found dead.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: March 1990)

☐ POTENTIAL

☐ ALLEGED

Several fish were found dead in correlation to the spill discovered in March of 1990.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/Runoff/Spilling rounds, Leaking drums)

02 ☒ OBSERVED (DATE: 3/90 + 5/92)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

10 tanks (ranging from ~2,000 to 10,000 gallons) + 9 drums make up the USEPA/I+M Canal site. In 3/90 one of the tanks was observed leaking. In 5/92 two locations where materials were leaking were observed.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

The Illinois + Michigan Canal was the recipient of the material that leaked from the tanks.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None documented or observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

The tanks + drums are illegally sitting on property of the Illinois Department of Conservation.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USEPA Files

CERCLA Screening Site Inspection

USGS Topographic Maps

National Wetland Inventory Maps

ISWS

Interviews

IDOC Files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPOES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT	Capacity of:		<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	~495	gallons	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND	~55,982	gallons	<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				06 AREA OF SITE 21 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
<input type="checkbox"/> A. ADEQUATE, SECURE <input type="checkbox"/> B. MODERATE <input type="checkbox"/> C. INADEQUATE, POOR <input checked="" type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DRUMS, LINERS, BARRIERS, ETC. There is no means by which access to the tanks ^{drums} is restricted. No kind of diking surrounds the containers. The tanks + drums are one of the containers has been observed + documented. Leakage from more than

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

USEPA Files
CERCLA Screening Site Inspection
IDOC files
IDOT Aerial Photographs



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

	SURFACE	WELL
COMMUNITY	A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>
D. <input checked="" type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>

03 DISTANCE TO SITE

A. ~1 (mi)
B. ~1.75 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~32,630

03 DISTANCE TO NEAREST DRINKING WATER WELL <1 (mi)

Depth to GROUNDWATER

~11 (ft)

05 DIRECTION OF GROUNDWATER FLOW

unknown

06 DEPTH TO AQUIFER
OF CONCERN

~11 (ft)

07 POTENTIAL YIELD
OF AQUIFER

~2.5 mgd
(gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

1. Sand + Gravel: Used for drinking water, both residential + municipal. Depth to H₂O ~11 feet.
2. Sandstone: Used for drinking water. Found at ~285 feet deep.
3. Limestone: Used for drinking water. Found ~2,500 feet deep.

10 RECHARGE AREA

☐ YES
☒ NO

COMMENTS

unknown

11 DISCHARGE AREA

☐ YES
☒ NO

COMMENTS

unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

Illinois + Michigan Canal
Illinois River

AFFECTED

DISTANCE TO SITE

~75 feet (mi)
1/4 (mi)
 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. ~8,150
NO. OF PERSONS

TWO (2) MILES OF SITE
B. ~26,782
NO. OF PERSONS

THREE (3) MILES OF SITE
C. ~29,729
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

<1 (mi) to
nearest resident

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

>500

04 DISTANCE TO NEAREST OFF-SITE BUILDING

~200 feet

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are no workers, residents or others on site.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 0984785071

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~30 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

>4 inches (in)

05 SOIL pH

unknown

06 NET PRECIPITATION

2.5 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE
SITE SLOPE

0 %

DIRECTION OF SITE SLOPE

South

TERRAIN AVERAGE SLOPE

25 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. NA (mi)

OTHER

B. ~75 feet (ft)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

7 (mi)

ENDANGERED SPECIES: Great Egrets land island

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

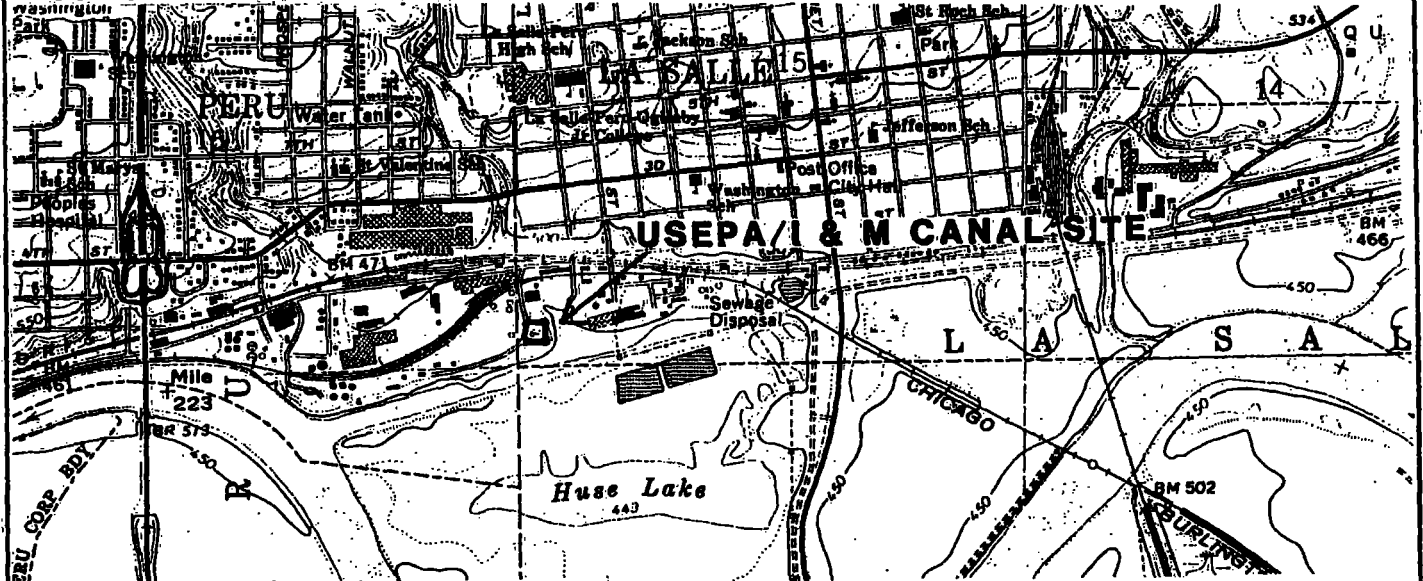
RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. ~75 feet (ft)

B. ~75 feet to the I & M Canal C. <1 (mi) D. (mi)
Which is a National Historic Landmark

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USEPA Files
IDOC Files
USGS Topographic Maps
National Wetland Inventory Maps
Groundwater Pumpage in Northern Illinois

The Artesian Waters of Northeastern Illinois



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			Sept. 1992
WASTE	5	IEPA Labs	
AIR			
RUNOFF			
SPILL			
SOIL / Sediment	8	IEPA Labs	Sept. 1992
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
(HNU) Protonization Detector	Highest reading was from Tank F with 75 units.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>Illinois EPA</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>IEPA Springfield, IL</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

See CERCLA SSI Report

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

CERCLA Screening Site Inspection.



01 STATE	02 SITE NUMBER
TL	D984785071

EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D984785071

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

Leonard Trovero

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

1 La Salle Road

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

La Salle

IL 61301

08 YEARS OF OPERATION

09 NAME OF OWNER

banks present
since 1958

Leonard Trovero

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER DURING THIS PERIOD

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER DURING THIS PERIOD

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER DURING THIS PERIOD

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Illinois Department of Conservation Files
USEPA Files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 984785071

II. ON-SITE GENERATOR

01 NAME N.A.	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME N.A.	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME N.A.	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☒ D. SPILLED MATERIAL REMOVED

04 DESCRIPTION

In March of 1990, the materials released from the tank were removed from the site.

02 DATE March 1990

03 AGENCY

01 ☒ E. CONTAMINATED SOIL REMOVED

04 DESCRIPTION

In March of 1990, soil which was covered by leached material was excavated.

02 DATE March 1990

03 AGENCY

01 ☒ F. WASTE REPACKAGED

04 DESCRIPTION

Dump trucks + rolloff boxes were used to transport the contaminated materials.

02 DATE March 1990

03 AGENCY

01 ☒ G. WASTE DISPOSED ELSEWHERE

04 DESCRIPTION

Materials were transported to Waste Management, Inc., a special waste permitted facility in Elgin, IL.

02 DATE April 1990

03 AGENCY

01 ☐ H. ON SITE BURIAL

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ I. IN SITU CHEMICAL TREATMENT

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ J. IN SITU BIOLOGICAL TREATMENT

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ K. IN SITU PHYSICAL TREATMENT

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ L. ENCAPSULATION

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ M. EMERGENCY WASTE TREATMENT

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ N. CUTOFF WALLS

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☒ O. EMERGENCY DIKING/SURFACE WATER DIVERSION

04 DESCRIPTION

Booms were placed in the I+M Canal to contain the spill as much as possible.

02 DATE March 1990

03 AGENCY

01 ☐ P. CUTOFF TRENCHES/SUMP

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY

01 ☐ Q. SUBSURFACE CUTOFF WALL

04 DESCRIPTION

N.A.

02 DATE

03 AGENCY



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N.A.

01 ☐ S. CAPPING/COVERING

02 DATE March 1993

03 AGENCY _____

04 DESCRIPTION A four inch layer of sand was applied to the seep ONLY as a means of temporary containment.

01 ☐ T. BULK TANKAGE REPAIRED

02 DATE March 1990

03 AGENCY _____

04 DESCRIPTION The opening on the tank was sealed with a metal plate.

01 ☐ U. GROUT CURTAIN CONSTRUCTED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ V. BOTTOM SEALED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ W. GAS CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ X. FIRE CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ Y. LEACHATE TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ Z. AREA EVACUATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☒ 1. ACCESS TO SITE RESTRICTED

02 DATE present

03 AGENCY _____

04 DESCRIPTION Access to the site + the tanks themselves is restricted by no means.

01 ☐ 2. POPULATION RELOCATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

01 ☐ 3. OTHER REMEDIAL ACTIVITIES

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

N.A.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Illinois Department of Conservation files
USEPA files



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER
IL D984785071

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

On May 4, 1990, the Illinois Department of Conservation sent a formal notice to Len Trovero Trovero Construction Co. + Central Illinois Construction Co. This correspondence stated that the railroad tank cars + 55 gallons drums must be removed at once. However, no such action was ever taken.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

Illinois Department of Conservation Files

APPENDIX C

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis(2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene
2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl) Phthalate
bis(2-chloroethoxy) Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a) Anthracene
2-Chloronaphthalene	3,3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b) Fluoranthene
3-Nitroaniline	Benzo(k) Fluoranthene
Acenaphthene	Benzo(a) Pyrene
Dibenzofuran	Indeno(1,2,3-cd) Pyrene
Dimethyl Phthalate	Dibenz(a,h) Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i) Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

Pesticide/PCB Target Compounds

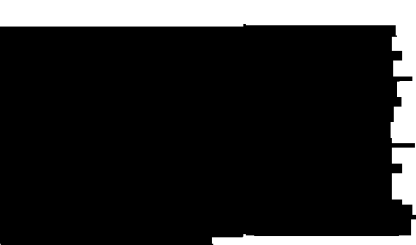
alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlorodane
Heptachlor	gamma-Chlorodane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobalt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	Sulfate

APPENDIX D

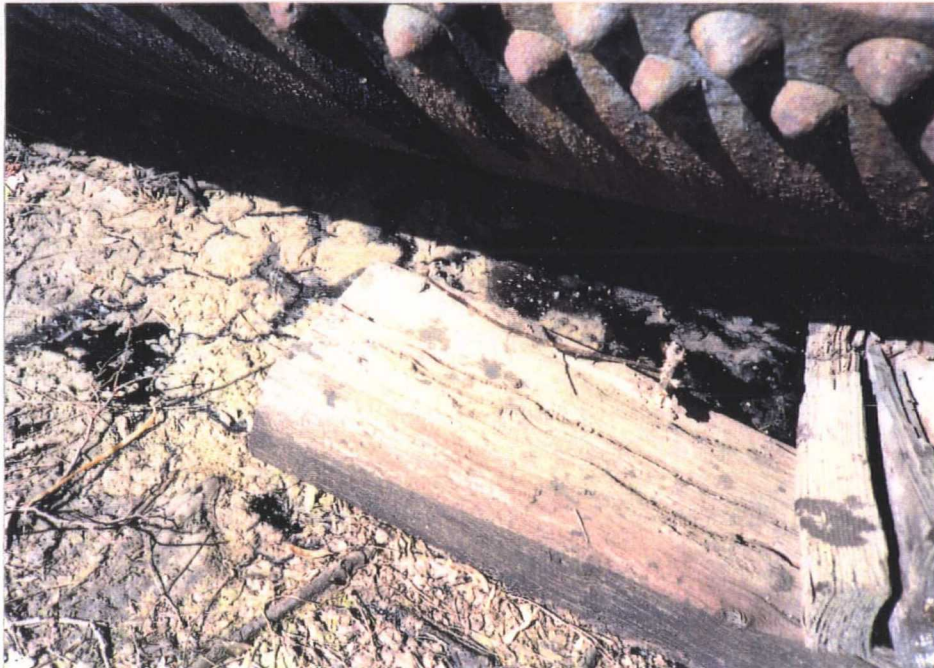
IEPA SITE PHOTOGRAPHS



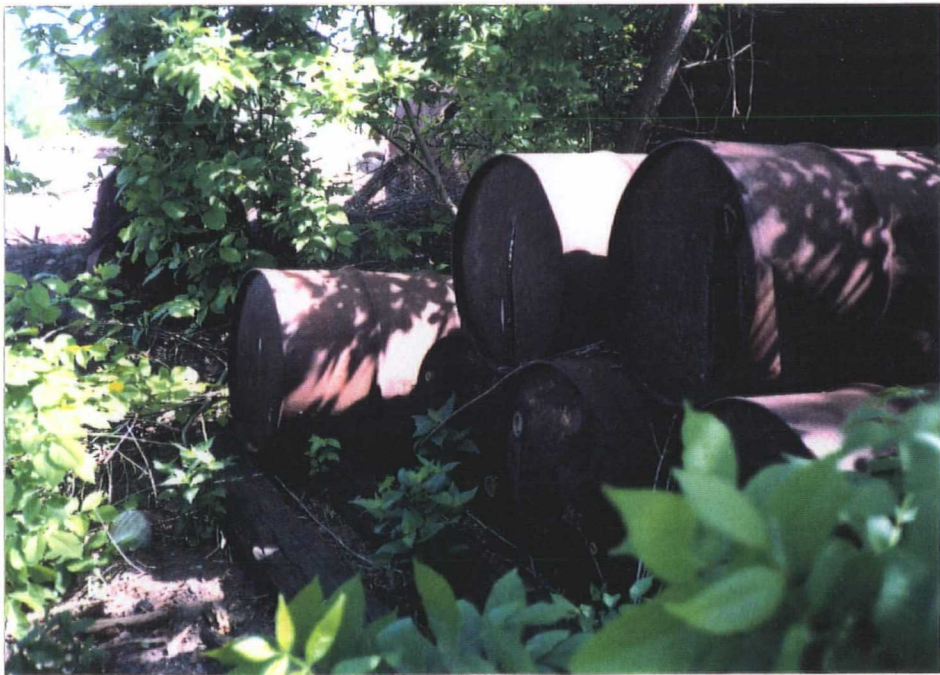


INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: 9:47 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Murphy		
COMMENTS: Pictures taken toward:		
west, just below tank I		
PHOTO #: A-1		

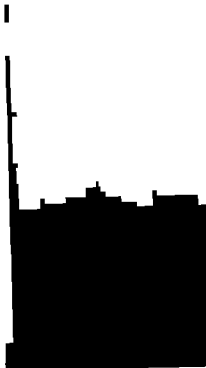


DATE: 5/12/92
TIME: 10:05 AM
PHOTOGRAPH TAKEN BY: S. Murphy
COMMENTS: Pictures taken toward:
north northeast
PHOTO #: A-2





1





INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: 10:06 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Murphy		
COMMENTS: Pictures taken toward:		
east, directly west of tank I		
PHOTO #: A-3		



DATE: 5/12/92
TIME: 10:06 AM
PHOTOGRAPH TAKEN BY: S. Murphy
COMMENTS: Pictures taken toward:
east, directly west of tank I
PHOTO #: A-4







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: 10:11 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Murphy		
COMMENTS: Pictures taken toward:		
northwest, south of tanks		
E and F		
PHOTO #: A-5		



DATE: 5/12/92
TIME: 10:11 AM
PHOTOGRAPH TAKEN BY: S. Murphy
COMMENTS: Pictures taken toward:
west, south of tanks E and F
PHOTO #: A-6







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: 10:11 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Murphy		
COMMENTS: Pictures taken toward:		
southwest, south of tanks		
E and F		
PHOTO #: A-7		



DATE: 5/12/92
TIME: 11:00 AM
PHOTOGRAPH TAKEN BY: S. Murphy
COMMENTS: Pictures taken toward:
south, north of tanks J and I
PHOTO #: A-8

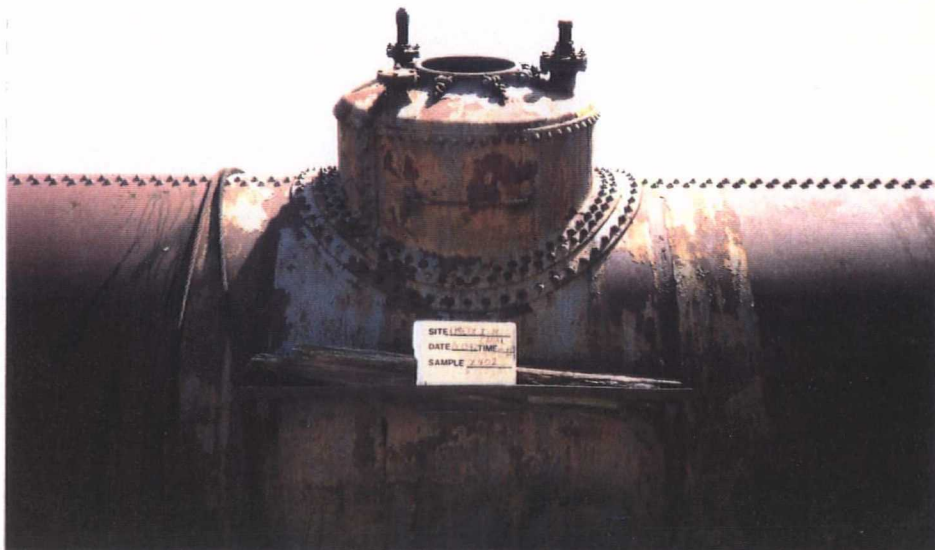






INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~11:00 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: J. Triller		
COMMENTS: Pictures taken toward:		
east		
PHOTO #: A-9		



DATE: 5/12/92
TIME: ~11:45 AM
PHOTOGRAPH TAKEN BY: J. Triller
COMMENTS: Pictures taken toward:
west
PHOTO #: A-10





INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~11:45 AM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: J. Triller		
COMMENTS: Pictures taken toward:		
south		
PHOTO #: A-11		



DATE: 5/12/92
TIME: ~12:45 PM
PHOTOGRAPH TAKEN BY: J. Triller
COMMENTS: Pictures taken toward:
north
PHOTO #: A-12





INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~ 12:45 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: J. Triller		
COMMENTS: Pictures taken toward:		
northwest		
PHOTO #: A-13		



DATE: 5/12/92
TIME: ~ 1:35 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
west
PHOTO #: B-1





INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~1:35 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
southwest		
PHOTO #: B-2		



DATE: 5/12/92
TIME: ~2:15 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
west, toward the bottom of tank I
PHOTO #: B-3







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~2:15 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
southwest		
PHOTO #: B-4		



DATE: 5/12/92
TIME: ~2:50 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
north, in drainage area
PHOTO #: B-5







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~2:50 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
east, in drainage area		
PHOTO #: B-6		



DATE: 5/12/92
TIME: ~3:30 PM
PHOTOGRAPH TAKEN BY: A. Kirwan
COMMENTS: Pictures taken toward:
north, along I & M Canal
embankment
PHOTO #: B-7







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~3:30 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: A. Kirwan		
COMMENTS: Pictures taken toward:		
north, along I & M Canal		
embankment		
PHOTO #: B-8		



DATE: 5/12/92
TIME: ~3:30 PM
PHOTOGRAPH TAKEN BY: A. Kirwan
COMMENTS: Pictures taken toward:
north, along I & M Canal
embankment
PHOTO #: B-9






1

1





INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~3:45 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
southwest, directly south of		
tanks D and E		
PHOTO #: B-10		


DATE: 5/12/92
TIME: ~3:45 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
south, directly of tanks
D and E
PHOTO #: B-11



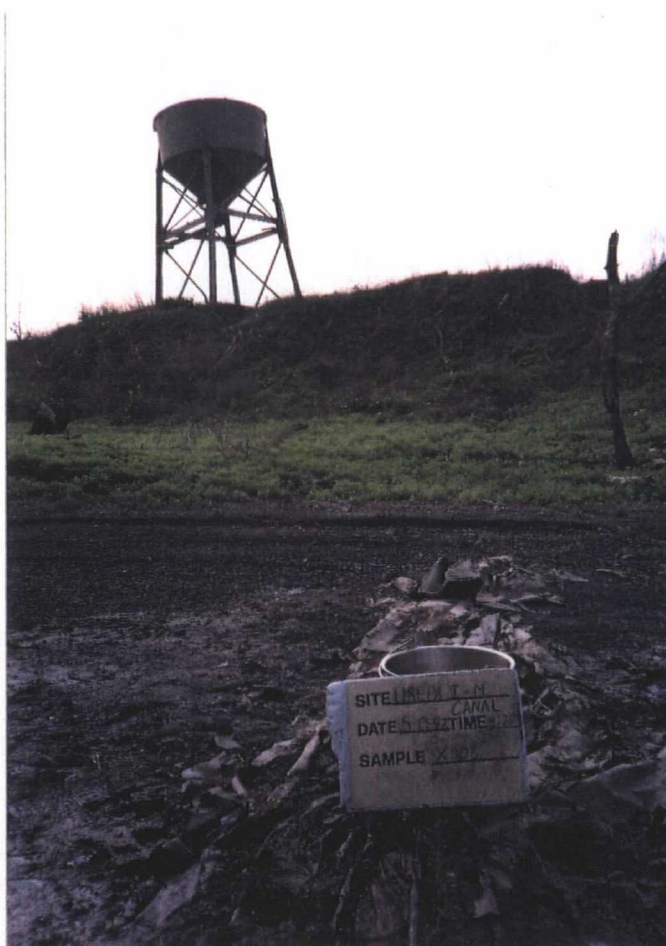




INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~4:25 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
east southeast, along I & M		
Canal shoreline		
PHOTO #: B-12		

DATE: 5/12/92
TIME: ~4:25 PM
PHOTOGRAPH TAKEN BY: G. Dunn
COMMENTS: Pictures taken toward:
northwest, along I & M
Canal shoreline
PHOTO #: B-13







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~4:50 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
south, along I & M Canal shoreline		
PHOTO #: C-1		




DATE: 5/12/92
TIME: ~4:50 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
east south east, along I & M Canal shoreline
PHOTO #: C-2







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~5:10 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Davis		
COMMENTS: Pictures taken toward:		
east, along I & M Canal		
shoreline		
PHOTO #: C-3		


DATE: 5/12/92
TIME: ~5:10 PM
PHOTOGRAPH TAKEN BY: S. Davis
COMMENTS: Pictures taken toward:
northwest, along I & M
Canal shoreline
PHOTO #: C-4







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~5:40 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY:		
COMMENTS: Pictures taken toward: S. Murphy		
north northeast		
PHOTO #: C-5		

DATE: 5/12/92
TIME: ~5:40 PM
PHOTOGRAPH TAKEN BY: S. Murphy
COMMENTS: Pictures taken toward:
east
PHOTO #: C-6







INSPECTION PHOTOS

DATE: 5/12/92	SITE #: 0990305026	co.: Lake
TIME: ~5:40 PM	SITE NAME: USEPA/I & M Canal	
PHOTOGRAPH TAKEN BY: S. Murphy	A color photograph showing a large, open grassy field in the foreground. In the middle ground, there is a chain-link fence. Behind the fence, on the left, is a two-story light-colored building. To the right of the fence is a long, low brick building with many windows. The sky is blue with some clouds. A small, rectangular sign is stuck in the grass in the lower center of the field. The sign has some text on it, including "USEPA" and "I & M Canal".	
COMMENTS: Pictures taken toward:		
southwest		
PHOTO #: C-7		

APPENDIX E

WELL LOGS

White Copy - Public Health
 Ill. Dept. - Well Contractor
 Yellow Copy - Well Owner
 Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION RECORDED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. _____ in. Depth _____ ft.
 Curb material _____ Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled X Finished in Drift X In Rock _____
 Tubular X Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Puddled clay	0	68

2. Distance to Nearest:

Building 20 Ft. Seepage Tile Field 120
 Cess Pool none Sewer (non Cast iron) none
 Privy none Sewer (Cast iron) 20
 Septic Tank 100 Barnyard none
 Leaching Pit none Manure Pile none

3. Is water from this well to be used for human consumption?

Yes X No _____

4. Date well completed July 17, 1968

5. Permanent Pump Installed? Yes X No _____
 Manufacturer Goulds Type submersible
 Capacity 42 gpm. Depth of setting _____ ft.

6. Well Top Sealed? Yes X No _____

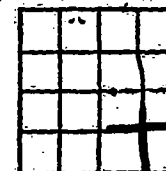
7. Pitless Adaptor Installed? Yes X No _____

8. Well Disinfected? Yes X No _____

Water Sample Submitted? Yes _____ No X

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals p. No. RF4076 Year 1968
11. Property owner John Ih Well No. 055
 Address 712 13 th St Bern, Illinois
 Driller S. Dean Albr License No. 92-150
12. Water from Sand & gravel Formation
 at depth 52-75 ft. Sec. 32
13. County LaSalle
14. Screen: Diam. 5 in. Twp. 34N
 Length 4 ft. Slot _____ Rng. 15
 Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5"</u>	<u>galv</u>	<u>0</u>	<u>68</u>

SIO
LOCATI
SECTION

16. Size Hole below casing: 5 in.
17. Static level 18 ft. below casing to, which is 18
 above ground level. Pumping level 20 ft. when pumping a
 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH TO BOTTOM
Fill	<u>5</u>	<u>5</u>
Yellow clay	<u>5</u>	<u>10</u>
Sand & gravel	<u>25</u>	<u>35</u>
Yellow clay, sand	<u>3</u>	<u>38</u>
Rock	<u>1</u>	<u>39</u>
Gray clay	<u>13</u>	<u>52</u>
Sand & gravel	<u>23</u>	<u>75</u>
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED J. D. ... DATE Sept 28, 1968

White Copy
Ill. Dep. Public Health
Yellow Co. - Well Contractor
Blue Copy Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REGISTERED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 614, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. _____ in. Depth _____ ft.
Curb material _____ Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled ☒ Finished in Drift ☒ In Rock _____
Tubular ☒ Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
puddled	0	48

2. Distance to Nearest:

Building 50 Ft. Seepage Tile Field 75
Cess Pool none Sewer (non Cast iron) 50
Privy none Sewer (Cast iron) 15
Septic Tank 50 Barnyard XXXX 60
Leaching Pit none Manure Pile none

3. Is water from this well to be used for human consumption? Yes ☒ No _____

4. Date well completed April 22, 1969

5. Permanent Pump Installed? Yes ☒ No _____
Manufacturer Red Jacket Type Submersible
Capacity 1/3 gpm. Depth of setting 42 ft.

6. Well Top Sealed? Yes _____ No ☒

7. Pitless Adaptor Installed? Yes ☒ No _____

8. Well Disinfected? Yes ☒ No _____

9. Water Sample Submitted? Yes _____ No ☒

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 7571 HP5925 Year 1969
11. Property owner Geo. Blakely, Jr. Well No. 1009
Address 1902 Plain St. Peru, Illinois
Driller S. Dean Albrecht License No. 92-350
12. Water from shale 13. County LaSalle
at depth 47 to 110 ft. Sec. 6
14. Screen: Diam. 5 in. Twp. 33N
Length: _____ ft. Slot _____ Rng. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>galv</u>	<u>0</u>	<u>48</u>

SHOW
LOCATION IN
SECTION PLAT
75'S 40'E
NW/4 SW 5

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 1 1/2 ft.
above ground level. Pumping level 110 ft. when pumping at 1/3 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
yellow clay	11	11
gray clay	4	15
gravel	3	18
gray clay	2	20
dry sand	1	21
gray clay	12	33
dry sand	2	35
clay	1	36
dry gravel	1	37
clay	7	44
gray shale	18	62
soft gray shale	13	75
red shale	32	110
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED S. Dean Albrecht DATE May 23, 1969
E.H.

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dept. of Pub. Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dig ☐ Bored ☐ Hole Diam. 5 in. Depth 208 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tabular ☒ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
muddled	0	48

2. Distance to Nearest:

Building 15 Ft. Seepage Tile Field 80
Cess Pool ☐ Sewer (non Cast iron) 55
Privy ☐ Sewer (Cast iron) 15
Septic Tank 60 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed January 4, 1974

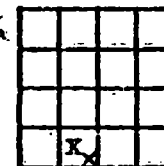
5. Permanent Pump Installed? Yes ☒ No ☐
Manufacturer Red Jacket Type Submersible
Capacity 1/2 hp gpm. Depth of setting 93 ft.

6. Well Top Sealed? Yes ☐ No ☒
7. Pitless Adaptor Installed? Yes ☒ little attached to casing No ☐ by owner
8. Well Disinfected? Yes ☒ No ☐
9. Water Sample Submitted? Yes ☐ No ☒

REMARKS: 22 gal. galv. pressure tank located in basement

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Charles Kosciwicz Well No.
Address R.H. LaSalle, Illinois
Driller S. Ross Albrecht License No. 102-120
11. Permit No. 22158 Date Jan. 8, 1974
12. Water from S&S Stone 13. County LaSalle
at depth 192 to 336 ft. Sec. 35.5a
14. Screen: Diam. ☐ in. Twp 34N
Length: ☐ ft. Slot ☐ Rge. 1E
Elev. ☐



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	black	0	48

SHOW
LOCATION IN
SECTION PLAT

80'N 100'W
S&S SESE SW

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is 13 ft. above ground level. Pumping level 65 ft. when pumping at 15 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
yellow clay	10	10
gravel	2	12
sandstone	20	32
gray limestone	26	58
green shale	1	59
tan limestone	129	188
fractured limestone	4	192
sandstone	16	208

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED S. Ross Albrecht DATE Feb. 12, 1974

INSTRUCTIONS TO DRILLERS

White -
Ill. I. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 105 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. 5 in. Depth 40 ft.
c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building 35 Ft. Seepage Tile Field 751
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 501 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed 11-26-785. Permanent Pump Installed? Yes ☐ No ☒

Manufacturer ☐ Type ☐

Capacity ☐ gpm. Depth of setting ☐ ft.

6. Well Top Sealed? Yes ☒ No ☐7. Pitless Adaptor Installed? Yes ☐ No ☒8. Well Disinfected? Yes ☒ No ☐9. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

IDPH 4.005

10-72

KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tri-County Well + Pump Well No. 1
Address St. Louis, Mo.
Driller Charles Fyler License No. 23
11. Permit No. 82006 Date 11-16-78
12. Water from St. Peter Sand 13. County Boone
at depth 36 to 105 ft. Sec. 11.26
14. Screen: Diam. ☐ in. Twp. 33N
Length: ☐ ft. Slot ☐ Rge. 1E
Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>Schedule 40 PVC</u>	<u>0</u>	<u>40</u>
	<u>1120-NSF 2.8711</u>		

SHOW
LOCATION IN
SECTION PLAT
W 5 E SE

16. Size Hole below casing: 5 in.

17. Static level 40 ft. below casing top which is +1 ft.
above ground level. Pumping level 45 ft. when pumping at 10
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Clay</u>	<u>10</u>	<u>10</u>
<u>Limestone</u>	<u>26</u>	<u>36</u>
<u>St. Peter Sand</u>	<u>69</u>	<u>105</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fyler DATE 1-16-80

White Co. Ill. De. (Public Health)
Yellow C - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION RE ESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 610, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. _____ in. Depth _____ ft.
Curb material _____ Buried Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. 6 in. Depth 177 ft.
- c. Drilled X Finished in Drift _____ In Rock 325.
Tubular _____ Gravel Packed _____
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building 100 Ft. Seepage Tile Field _____
Cess Pool _____ Sewer (non Cast iron) _____
Privy _____ Sewer (Cast iron) _____
Septic Tank 150 Barnyard _____
Leaching Pit 200 Manure Pile _____

3. Is water from this well to be used for human consumption?

Yes X No _____

4. Date well completed 5-5-68

5. Permanent Pump Installed? Yes _____ No X

Manufacturer _____ Type _____
Capacity _____ gpm. Depth of setting _____ ft.

6. Well Top Sealed? Yes _____ No _____

7. Pitless Adaptor Installed? Yes _____ No _____

8. Well Disinfected? Yes _____ No _____

9. Water Sample Submitted? Yes _____ No X

REMARKS: 6" PIPE WAS DRIVEN FROM SURFACE WELL IN TO BED ROCK THE SMALL ANNULAR SPACE WAS FILLED WITH BENTONITE AND CUTTINGS

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 4728 Year 1968
11. Property owner CLEM JASIEK Well No. 1
Address TWP 33 N. R. 24 S. E. 16 E
Driller CHAS. E. WOODRUFF CO License No. 99-409
12. Water from SANDSTONE Formation at depth 285 to 325 ft. Sec. 2
13. County LA SALLE
14. Screen: Diam. _____ in. Twp. 33 N
Length: _____ ft. Slot _____ Rng. 1 E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>T.G. BLK 19"</u>	<u>0</u>	<u>177</u>
<u>5</u>	<u>P.E. " 15"</u>	<u>159</u>	<u>235</u>
	<u>PERFORATED</u>		

SHOW LOCATION IN SECTION PLAT
500 N 2000 W
7
SE 1/4 NE

16. Size Hole below casing: 5 in.

17. Static level 95 ft. below casing top which is 1 ft. above ground level. Pumping level 105 ft. when pumping at 20 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>CLAY</u>	<u>5</u>	<u>5</u>
<u>SHALE</u>	<u>10.5</u>	<u>170</u>
<u>SHALE & LIME SHELLS THIN</u>	<u>60</u>	<u>170</u>
<u>COAL</u>	<u>5</u>	<u>175</u>
<u>SAND ROCK</u>	<u>30</u>	<u>205</u>
<u>LIME</u>	<u>25</u>	<u>230</u>
<u>CLAY</u>	<u>5</u>	<u>235</u>
<u>LIME</u>	<u>50</u>	<u>285</u>
<u>SANDSTONE</u>	<u>40</u>	<u>325</u>
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED W. J. Norton DATE 5-18-68

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO WELLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 160 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
<u>outletting</u>	<u>0</u>	<u>120</u>

2. Distance to Nearest:

Building ☐ Ft. Seepage Tile Field ☐
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank ☐ Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☐ No ☐

4. Date well completed 10-26-83

5. Permanent Pump Installed? Yes ☐ Date 10/31/83 No ☐

Manufacturer Boyle Type Subm Location well
Capacity 10 gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☐ No ☒ Type capped

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer Williams Model Number ☐
How attached to casing? bottom

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☒ No ☐

10. Pressure Tank Size 20 gal. Type Cleypa Mark

Location basement

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Richard Muller Well No. ☐

Address 1201 N. 1st St. Springfield, Ill. 62761

Driller John J. Muller License No. 109027

11. Permit No. 109027 Date 10/26/83

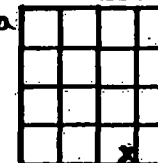
12. Water from Limestone 13. County Madison

at depth 56 to 160 ft. Sec. 23a

14. Screen: Diam. ☐ in. Twp. 33N

Length: ☐ ft. Slot ☐ Rge. 1E

Elev. ☐



15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>300 PK</u>	<u>0</u>	<u>120</u>

SHOW
LOCATION IN
SECTION PLAT
SE 1/4

16. Size Hole below casing: ☐ in.

17. Static level ☐ ft. below casing top which is ☐ ft.
above ground level. Pumping level ☐ ft. when pumping at ☐
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Top Soil</u>	<u>1</u>	<u>1</u>
<u>Clay</u>	<u>24</u>	<u>25</u>
<u>Shale</u>	<u>80</u>	<u>105</u>
<u>Sandstone</u>	<u>51</u>	<u>156</u>
<u>Limestone</u>	<u>4</u>	<u>160</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED John J. Muller DATE 10/31/84

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILL

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. in. Depth ft.
c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Bentonite		
Drillcuttings	+1	575'

2. Distance to Nearest:

Building None Ft. Seepage Tile Field None
Cess Pool " Sewer (non Cast iron) "
Privy " Sewer (Cast iron) "
Septic Tank " Barnyard "
Leaching Pit " Manure Pile "

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed April 8-1987

5. Permanent Pump Installed? Yes ☐ Date No ☒

Manufacturer Type Location
Capacity gpm. Depth of Setting Ft.

6. Well Top Sealed? Yes ☐ No ☐ Type compression

7. Pitless Adapter Installed? Yes ☐ No ☐

Manufacturer Model Number
How attached to casing?

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size gal. Type

Location

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

26 length 21'-4" = 554'-8" Hole @ 815' Dry
12 length 19'-11" 19'-11"
1 piece 1'-2" 1'-7"
6" pipe in Well 576'-2" Well seal
Well shoe
chlorine
Supermitt

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Charles and Terra Helming No.

Address 1428-24th St Peru-IL

Driller John Martin License No. 92332

11. Permit No. 129946 Date March 12-1987

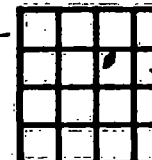
12. Water from Limestone 13. County Lasalle

at depth 8 to 710 ft.

14. Screen: Diam. in.

Length: ft. Slot

Sec. 29/e
Twp. 33N
Rge. 1E
Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Wt steel 19.25	+1	576'

SHOW LOCATION IN SECTION PLAT
100' NL 100' WL
SE SE NE

16. Size Hole below casing: 6 in.

17. Static level 115 ft. below casing top which is 1 ft.

above ground level. Pumping level 170 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
clay	5'	5'
sand	10'	15'
Gray Clay	38'	53'
Hard Gravel and clay	17'	70'
Shale Gray soft	15'	85'
Shale Gray Hard (clay)	85'	170'
Limestone and Red clay	25'	195'
Limestone and Gray shale	350'	555'
Limestone (solid) Hard	355'	910'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED DATE

Limestone Turned White @ 815' began Making water

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug . Bored . Hole Diam. 5 in. Depth 136 ft.
Curb material . Buried Slab: Yes No
- b. Driven . Drive Pipe Diam. in. Depth ft.
- c. Drilled X. Finished in Drift . In Rock X.
Tubular . Gravel Packed .
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:

Building 50 Ft. Seepage Tile Field
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank 75 Barnyard
Leaching Pit Manure Pile

3. Is water from this well to be used for human consumption?

Yes X No

4. Date well completed August 30, 1973

5. Permanent Pump Installed? Yes X No
Manufacturer Red Jacket Type Submersible
Capacity 9 gpm. Depth of setting 105 ft.

6. Well Top Sealed? Yes X No

7. Pitless Adaptor Installed? Yes X No

8. Well Disinfected? Yes X No

9. Water Sample Submitted? Yes No X

REMARKS: Owner instructed to take sample.

RECEIVED

APR 19 1991

IEPA/DLPC

IDPH 4.061
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Richard Cook Well No.

Address R.P. #1 O'lesby, Illinois

Driller K & K Well Drilling License No. 102 27

11. Permit No. 25005 Date Augst 22, 1973

12. Water from Limestone 13. County LaSalle

at depth to ft. Sec. 34

14. Screen: Diam. in. Twp. 33N

Length: ft. Slot Rge. 1E

Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Black 15#	0	131

SHOW
LOCATION IN
SECTION PLAT
SW SW SW

16. Size Hole below casing: 5 in.

17. Static level 60 ft. below casing top which is 1 ft.
above ground level. Pumping level 105 ft. when pumping at 20
gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	131	131
Rock Formation	5	136

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James A. Kucinski DATE August 30, 1973

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO USERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 24 in. Depth 31 ft.
Curb material concrete. Buried Slab: Yes ☒ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building 20 Ft. Seepage Tile Field 95
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 84 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed 11-2-86

5. Permanent Pump Installed? Yes ☒ Date 11-11-86 No ☐

Manufacturer FAIR Type SUB Location WELL

Capacity 10 gpm. Depth of Setting 28 Ft.

6. Well Top Sealed? Yes ☐ No ☐ Type ☐

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer BUTLER Model Number HAUSEY

How attached to casing? WELT W/GROUT

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☒ No ☐

10. Pressure Tank Size 42 gal. Type CAPTIVE AIR

Location GRS

11. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

County #23395

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner STANLEY MROWICKI Well No. 2

Address 2007 PULASKI PARK

Driller ROBERT SCHERP License No. 092-03925

11. Permit No. 121820 Date 10-30-85

12. Water from GRAVEL 13. County LA SALLE

at depth 15 to 20 ft. Sec. 9

14. Screen: Diam. ☐ in. Twp. 34N

Length: ☐ ft. Slot ☐ Rge. 1E

Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>24</u>	<u>CONCRETE</u>	<u>10</u>	<u>31</u>

SHOW
LOCATION IN
SECTION PLAT
SE SW

16. Size Hole below casing: ☐ in.

17. Static level 4 ft. below casing top which is 1 ft.

above ground level. Pumping level ☐ ft. when pumping at

gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>TOP SOIL</u>	<u>1</u>	<u>1</u>
<u>YELLOW CLAY</u>	<u>14</u>	<u>15</u>
<u>GRAVEL</u>	<u>5</u>	<u>20</u>
<u>SAND</u>	<u>11</u>	<u>31</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED

Robert Scherp

DATE

1-5-86

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 32 in. Depth 48 ft.
Curb material concrete Buried Slab: Yes ☒ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building ☐ Ft. Seepage Tile Field ☐

Cess Pool ☐ Sewer (non Cast Iron) ☐

Privy ☐ Sewer (Cast Iron) ☐

Septic Tank ☐ Barnyard ☐

Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed 5/2/78

5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒

Manufacturer ☐ Type ☐ Location ☐

Capacity ☐ gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type vented cap

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer Baker Model Number 5PLT6P12WM

How attached to casing? clamp-on

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size ☐ gal. Type ☐

Location ☐

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

10. Property owner Jack Ator Well No. ☐

Address 2705 St. Vincent LaSalle, Ill.

Driller Steven Sauder License No. 92-622

11. Permit No. 73795 Date 5/2/78

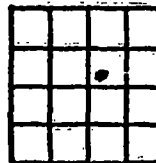
12. Water from yellow gravel 13. County LaSalle

at depth 11 to 12 ft. Sec. 3

14. Screen: Diam. ☐ in. Twp. 33N

Length: ☐ ft. Slot ☐ Rge. 1E

Elev. ☐



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>PVC</u>	<u>1</u>	<u>10</u>
<u>24</u>	<u>concrete</u>	<u>10</u>	<u>48</u>

SHOW
LOCATION IN
SECTION PLAT
8.5 N, 30.0 E
SW 1/4 NE

16. Size Hole below casing: ☐ in.

17. Static level ☐ ft. below casing top which is ☐ ft.

above ground level. Pumping level ☐ ft. when pumping at ☐

gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>clay- yellow</u>	<u>11</u>	<u>11</u>
<u>gravel- yellow</u>	<u>1</u>	<u>12</u>
<u>clay- gray, green</u>	<u>13</u>	<u>25</u>
<u>shale- red</u>	<u>10</u>	<u>35</u>
<u>shale- gray, white, powdery</u>	<u>13</u>	<u>48</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Steven Sauder DATE 5/5/78

SIGNED J. J. Tamm DATE 11-5-68

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 24 in. Depth 44 ft.
Curb material Concrete Buried Slab: Yes ☒ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:

Building 140 Ft. Seepage Tile Field 100
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 100 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed 9-2-78

5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒

Manufacturer ☐ Type ☐ Location ☐
Capacity ☐ gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☐ No ☐ Type ☐

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer BARKER Model Number SPR6P12WN
How attached to casing? C. CLAMPED

8. Well Disinfected? Yes ☐ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size ☐ gal. Type ☐

Location ☐

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ALBERT SCHALLER Well No. 2

Address PIERV

Driller ROBERT SCHALLER License No. 072-15425

11. Permit No. 78826 Date 8-31-78

12. Water from GRAVEL 13. County LA SALLE

Formation GRAVEL

at depth 35 to 38 ft. Sec. 187

14. Screen: Diam. ☐ in. Twp. 33N

Length: ☐ ft. Slot ☐ Rge. 18E

Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>24</u>	<u>Covered</u>	<u>12</u>	<u>44</u>

SHOW LOCATION IN SECTION PLAT
SE NW SW

16. Size Hole below casing: ☐ in.

17. Static level 18 ft. below casing top which is 1 ft.

above ground level. Pumping level ☐ ft. when pumping at ☐

gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>TOP SOIL</u>	<u>1</u>	<u>1</u>
<u>YELLOW CLAY</u>	<u>14</u>	<u>15</u>
<u>SOFT BLUE SHALE</u>	<u>20</u>	<u>35</u>
<u>GRAVEL</u>	<u>3</u>	<u>38</u>
<u>RED SHALE</u>	<u>6</u>	<u>44</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert V. Schaller DATE 11-17-78

White Copy -
Ill. Dept. of Pub. H.
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 77 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☒ Finished in Drift ☐ In Rock ☒
Tubular ☒ Gravel Packed ☐
d. Grout: ☐

(KIND)	FROM (Ft.)	TO (Ft.)
Puddled		
Clay	0	57

2. Distance to Nearest:

Building ☐ Ft. Seepage Tile Field ☐
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank ☐ Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐
4. Date well completed ☐
5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒
Manufacturer ☐ Type ☐ Location ☐
Capacity ☐ gpm. Depth of Setting ☐ Ft.
6. Well Top Sealed? Yes ☐ No ☒ Type ☐
7. Pitless Adapter Installed? Yes ☐ No ☒
Manufacturer ☐ Model Number ☐
How attached to casing? ☐
8. Well Disinfected? Yes ☒ No ☐
9. Pump and Equipment Disinfected? Yes ☐ No ☐
10. Pressure Tank Size ☐ gal. Type ☐
Location ☐
11. Water Sample Submitted? Yes ☐ No ☐

REMARKS:

Location # 23340

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner William Henkel Well No. 2834M
Address R.R. #1 Peru, IL
Driller S. Dean Albrecht License No. 102-120
11. Permit No. 118454 Date ☐
12. Water from Rock 13. County LaSalle
at depth 60 to 77 ft. Sec. 29
14. Screen: Diam. ☐ in. Twp. 33N
Length: ☐ ft. Slot ☐ Rge. 1E
Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	steel	0	57

SHOW
LOCATION IN
SECTION PLAT
See map

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is 1 1/2 ft.
above ground level. Pumping level ☐ ft. when pumping at 3
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
yellow sandy clay	18	18
gray clay	1	19
brown sandy clay	2	21
sand	1	22
gray sandy clay streaks sand	15	37
sandy brown clay	6	43
gray clay sandy	9	52
brown clay	3 1/2	55 1/2
sand & gravel	1	56
brown clay, shaley	1	57
limestone	3	60
shale w/limestone streaks	17	77

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Kevin Buck DATE 7-24-85

Copy -
Eq. of Public Health
Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 5 in. Depth 120 ft.
Curb material ☐ Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☒
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Cuttings		

2. Distance to Nearest:

Building 30 Ft. Seepage Tile Field ☐
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 75 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed 10-17-77

5. Permanent Pump Installed? Yes ☒ Date 11-8-77 No ☐

Manufacturer Barnes Type Subm Location Well
Capacity 30 gpm. Depth of Setting 40 Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type Williams Cap

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer Williams Model Number B50AC
How attached to casing? Bolted

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☒ No ☐

10. Pressure Tank Size 42 gal. Type Galv.

Location Basement

11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

OWNER INSTRUCTED TO TAKE SAMPLE

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Jay O'Flanagan Well No.

Address 1015 LaSalle St., Ottawa, IL 61350

Driller X & Y Well Drilling License No. 102-27

11. Permit No. 62878 Date 10-7-77

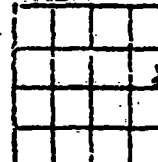
12. Water from Limestone 13. County La Salle

at depth 35 to 120 ft. Sec. 11E

14. Screen: Diam. in. Twp. 33N

Length: ft. Slot Rpt. 1-2

Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Plastic	0	40

SHOW
LOCATION IN
SECTION PLAT
SE SE 1E

16. Size Hole below casing: 5 in.

17. Static level 40 ft. below casing top which is 1 ft.

above ground level. Pumping level 84 ft. when pumping at 20

gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	5	5
Sandstone	9	14
Shale (white & lt. blue)	15	29
Limestone	4	33
Shale	2	35
Limestone	85	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James A. Kneeling DATE 11-10-77